AUTHOR INDEX TO VOLUME 104

Abei M, Kawczak P, Nuutinen H, Langnas A, Svanvik J, Holzbach RT. Isolation and Characterization of a Cholesterol Crystallization Promoter From Human Bile, 104:539

Abramowich D. See Broide E

Abramowsky C. See Banwell JG

Abrignani A. See Botarelli P

Achord JL. How Gastric Acid May Get to Be There. Comment, 104:1878-ss

Adenis A, Wallaert B, Colombel J-F, Cortot A, Marchandise X, Janin A, Hällgren R. Intestinal Involvement in Sarcoidosis, 104:947-c

Adler G. See Büchler M

Adler R. See Ilan Y

Adrian TE. See Banwell JG

Afdhal NH, Niu N, Gantz D, Small DM, Smith BF. Bovine Gallbladder Mucin Accelerates Cholesterol Monohydrate Crystal Growth in Model Bile, 104:1515

Agarwal DK, Mukhopadhyay DK. Biliary Acidification and Gallstone Calcification, 104:1885-c

Ahnen D. See Wright NA

Aisenberg J. See Sperber K

Alam Afridi S, Shaw-Stiffel TA. Evolution of Barrett's Esophagus: The Jury Is Still Out, 104:1236-c

Albillos A, Colombato LA, Lee F-Y, Groszmann RJ. Octreotide Ameliorates Vasodilatation and Na^+ Retention in Portal Hypertensive Rats, 104:575

Albrecht J. See Lefkowitch JH

Alexeyeff MA. See St. John DJB

Alia C. See Andreu M

Allan CH, Mendrick DL, Trier JS. Rat Intestinal M Cells Contain Acidic Endosomal-Lysosomal Compartments and Express Class II Major Histocompatibility Complex Determinants, 104:698

Altschuler SM, Escardo J, Lynn RB, Miselis RR. The Central Organization of the Vagus Nerve Innervating the Colon of the Rat, 104:502

Aluffi E. See Mondardini A

Alvarez F. See Yamamoto AM

Ambroze WL Jr, Pemberton JH, Dozois RR, Carpenter HA, O'Rourke JS, Ilstrup DM. The Histological Pattern and Pathological Involvement of the Anal Transition Zone in Patients With Ulcerative Colitis, 104:514

Amorosi A. See Bechi P

Andersen PK. See Lombard M

Ando H, Miyoshi Y, Nagase H, Baba S, Nakamura Y. Detection of 12 Germ-Line Mutations in the Adenomatous Polyposis Coli Gene by Polymerase Chain Reaction, 104:989

Andreu D. See Gambús G

Andreu M, Sola R, Sitges-Serra A, Alia C, Gallen M, Vila MC, Coll S, Oliver MI. Risk Factors for Spontaneous Bacterial Peritonitis in Cirrhotic Patients With Ascites, 104:1133

Angelico M, Carli L, Piat C, Gentile S, Rinaldi V, Bologna E, Capocaccia L. Isosorbide-5-Mononitrate Versus Propranolol in the Prevention of First Bleeding in Cirrhosis, 104:1460

Anti M, Marra G, Percesepe A, Armelao F. ω-3 Fatty Acids and Bowel Cancer. Reply, 104:1240-c

Anton PA. See Shanahan F

Apple FS. Absence of False Elevations With Kodak Ektachem Lipase. Reply, 104:1580-c

Arai M, Mochida S, Ohno A, Ogata I, Fujiwara K. Sinusoidal Endothelial Cell Damage by Activated Macrophages in Rat Liver Necrosis, 104:1466

Argenzio RA, Lecce J, Powell DW. Prostanoids Inhibit Intestinal NaCl Absorption in Experimental Porcine Cryptosporidiosis, 104:440

Arias IM. Cyclosporin, the Biology of the Bile Canaliculus, and Cholestasis, 104:1558-e

Armelao F. See Anti M

Arranz E, Ferguson A. Intestinal Antibody Pattern of Celiac Disease: Occurrence in Patients With Normal Jejunal Biopsy Histology, 104:1263

Arroyo V
See Asbert M
See Badalamenti S

Arsenault P. See Ménard D

Asako H, Wolf RE, Granger DN. Leukocyte Adherence in Rat Mesenteric Venules: Effects of Adenosine and Methotrexate, 104:31

Asbert M, Ginès A, Ginès P, Jiménez W, Clària J, Saló J, Arroyo V, Rivera F, Rodés J. Circulating Levels of Endothelin in Cirrhosis, 104:1485

Asbun HJ, Rossi RL, Heiss FW, Shea JA. Acute Relapsing Pancreatitis as a Complication of Papillary Stenosis After Endoscopic Sphincterotomy, 104:1814-cr

Attwood SEA, Stephens RB. Appendectomy—Will the Laparoscope Reign? Reply, 104:936-ss

Auricchio S. See Maiuri L

Baba S. See Ando H

Bacon BR, Di Bisceglie AM. Aspartate Aminotransferase and Iron Status—Lack of Support for Covariation. Reply, 104:665-c

Badalamenti S, Gines P, Arroyo V. Renal Effects of Aminoacid Administration in Cirrhosis, 104:1886-c

Badger TM. See Hakkak R

Badsberg JH. See Lombard M

Baker RA. See Padbury RTA

Balart LA. See Lefkowitch JH

Balart LA, Perrillo R, Roddenberry J, Regenstein F, Shim K-S, Shieh YSC, Taylor B, Dash S, Gerber MA. Hepatitis C RNA in Liver of Chronic Hepatitis C Patients Before and After Interferon Alfa Treatment, 104:1472

Ballet F. See Loeper J

Banerjee A. Thromboxanes, Indomethacin, and Experimental Colitis, 104:1891-c

Banwell JG, Howard R, Kabir I, Adrian TE, Diamond RH, Abramowsky C. Small Intestinal Growth Caused by Feeding Red Kidney Bean Phytohemagglutinin Lectin to Rats, 104:1669

Barrett KE.
Adhesion Molecule Expression in Inflammatory Bowel Disease. Comment, 104:1569-srr
An Enteric Pathogen Subverts Epithelial Signal Transduction Mechanisms for Invasion. Comment, 104:326-ss

Bartula L. See Myers S

Basavappa S, Middleton J, Mangel AW, McGill JM, Cohn JA, Fitz JG. Cl^-

KEY TO ABBREVIATIONS

aga—American Gastroenterological Association
br—Book Reviews
cr—Case Reports
cch—Clinical Challenges
ceig—Commemorative Essays in Gastroenterology
c—Correspondence
e—Editorials
paps—Policy and Position Statement
ss—Selected Summaries
srr—Special Reports and Reviews
tmig—This Month in Gastroenterology
vodd—Viewpoints on Digestive Diseases

and K^+ Transport in Human Biliary Cell Lines, 104:1796
Bass BL. See Benya RV
Bass NM. *Hepatobiliary Diseases*, 104:1882-br
Bates JN. See Conklin JL
Bauer AJ. See Stark ME
Bayerdörffer E, Mannes GA, Ochsenkühn T, Köpcke W, Wiebecke B, Paumgartner G. Increased Risk of 'High-Risk' Colorectal Adenomas in Overweight Men, 104:137
Bayerdörffer E, Mannes GA, Richter WO, Ochsenkühn T, Wiebecke B, Köpcke W, Paumgartner G. Increased Serum Deoxycholic Acid Levels in Men With Colorectal Adenomas, 104:145
Bayless TM. See Mishra L
Beau P. See Férézou J
Beauchamp RD. See Guo Y-S
Beaune P. See Loeper J
Bechi P, Amorosi A, Mazzanti R, Dei R, Bianchi S, Mugnai L, Masini E. Reflux-Related Gastric Mucosal Injury Is Associated With Increased Mucosal Histamine Content in Humans, 104:1057
Beck IT. See Dinda PK
Bedogni G. See Sassatelli R
Befus AD. See Hogaboam CM
Beger HG. See Büchler M
Behar J, Rhim BY, Thompson W, Biancani P. Inositol Triphosphate Restores Impaired Human Gallbladder Motility Associated With Cholesterol Stones, 104:563
Belai A. See Soediono P
Belaich S. See Marcellin P
Belghiti J. See Loeper J
Bell C. See Li Z
Bell SM, Scott N, Cross D, Sagar P, Lewis FA, Blair GE, Taylor GR, Dixon MF, Quirke P. Prognostic Value of p53 Overexpression and c-Ki-*ras* Gene Mutations in Colorectal Cancer, 104:57
Bendtsen F. See Henriksen JH
Benhamou J-P. See Marcellin P
Benhattar J, Losi L, Chaubert P, Givel J-C, Costa J. Prognostic Significance of K-*ras* Mutations in Colorectal Carcinoma, 104:1044
Benner KG. *Guide to Liver Transplantation*, 104:1233-br
Benya RV, Duncan MD, Mishra L, Bass BL, Voyles NR, Korman LY. Extracellular Matrix Composition Influences Insulinlike Growth Factor I Receptor Expression in Rat IEC-18 Cells, 104:1705
Berenson MM, Johnson TD, Markowitz NR, Buchi KN, Samowitz WS. Restoration of Sqamous Mucosa After Ablation of Barrett's Esophageal Epithelium, 104:1686
Bernardi M. Hyperdynamic Circulation in Cirrhosis: Physiology or Pathophysiology?, 104:1579-c
Bernardi P. See Mondardini A
Bernstein CN. See Shanahan F
Bernstein CN, Shanahan F.
Bowel Rest and Elemental Diet in Crohn's Disease. Reply, 104:1239
Purine Analogues and Ulcerative Colitis. Comment, 104:325-ss
Bernuau J. See Féray C
Bertoni G. See Sassatelli R
Beuers U, Nathanson MH, Boyer JL. Effects of Tauroursodeoxycholic Acid on Cytosolic Ca^{2+} Signals in Isolated Rat Hepatocytes, 104:604
Beuers U, Spengler U, Paumgartner G. Promises, Promises: Ursodeoxycholic Acid for Primary Sclerosing Cholangitis. Reply, 104:943-ss
Beveridge DJ. See Fuller PJ
Bhatti S. See Güldütuna S
Biancani P. See Behar J
Bianchi S. See Bechi P
Bickel A, Shtamler B, Mizrahi S. Postoperative Feeding: Liquid Versus Solid Fuel. Reply, 104:324-ss
Bilski J. See Konturek SJ
Biolo G. See Tessari P
Birch MJ. See Kalabakas AA
Bishop AE. See Walters JRF
Bismuth H. See Féray C
Bissonnette EY. See Hogaboam CM
Bjarnason I, Hayllar J, MacPherson AJ, Russell AS. Side Effects of Nonsteroidal Anti-inflammatory Drugs on the Small and Large Intestine in Humans, 104:1832-srr
Blackstone MO. Are Early Electron-Microscopic Acinar Cell Derangements in Opossum Pancreatitis Critical for Coagulative Necrosis at 7 Days?, 104:1236-c
Blair GE. See Bell SM
Blanco MC. See Fox JG
Blennerhassett P. See Main C
Bleyzer I. See Genta RM
Boda MI. See Khuroo MS
Bodenheimer HC Jr. See Lefkowitch JH
Boeckxstaens GE, Pelckmans PA, Herman AG, Van Maercke YM. Involvement of Nitric Oxide in the Inhibitory Innervation of the Human Isolated Colon, 104:690
Böhme M. See Kadmon M
Boland CR. See Lynch HT
Boland CR, Scheiman JM, Kraus ER. Regulation of Canine Gastric Mucin Synthesis and Phospholipid Secretion by Acid Secretagogues. Reply, 104:1889-c
Bologna E. See Angelico M
Bommelaer G. See Mosnier P
Bonino F. See Botarelli P
Borgeat A, Wilder-Smith OHG, Mentha G. Subhypnotic Doses of Propofol Relieve Pruritis Associated With Liver Disease, 104:244
Bories P. See Gendre J-P
Borum M, Steinberg W, Steer M, Freedman S, White P. Chronic Pancreatitis: A Complication of Systemic Lupus Erythematosis, 104:613-cr
Bosch J. See Luca A
Botarelli P, Brunetto MR, Minutello MA, Calvo P, Unutmaz D, Weiner AJ, Choo Q-L, Shuster JR, Kuo G, Bonino F, Houghton M, Abrignani A. T-Lymphocyte Response to Hepatitis C Virus in Different Clinical Courses of Infection, 104:580
Boudreaux CW. See Gremse DA
Bouvry M. See Gendre J-P
Bowes KL. See Mintchev MP
Boyer JL. See Beuers U
Boyer N. See Marcellin P
Brandt LJ. See Schoen RE
Brandtzaeg P. See Lucidarme D
Breanndan Moore S. See Czaja AJ
Bréchot C. See Féray C
Brehm R. See Swoboda K
Bremondy A. See Gendre J-P
Brewer GJ. Zinc in the Treatment of Wilson's Disease: How It Works. Reply, 104:1568-srr
Brissot P. See Deugnier YM
Broide E, Scapa E, Peer A, Witz E, Abramowich D, Eshchar J. Buerger's Disease Presenting as Acute Small Bowel Ischemia, 104:1192-cr
Brotea G. Absence of False Elevations With Kodak Ektachem Lipase, 104:1580-c
Brunetto MR. See Botarelli P
Brunner G. See Lamberts R
Brydon G. See Choudari CP
Buchan AMJ, Meloche RM, Kwok YN, Kofod H. Effect of Cholecystokinin and Secretin on Somatostatin Release From Cultured Antral Cells, 104:1414
Buchi KN. See Berenson MM
Büchler M, Malfertheiner P, Uhl W, Schölmerich J, Stöckmann F, Adler G, Gaus W, Rolle K, Beger HG, German Pancreatitis Study Group.

Gabexate Mesilate in Human Acute Pancreatitis, 104:1165
Bueno L
See Fargeas M-J
See Morteau O
Bukhave K. See Yao B
Burakoff R. See Percy WH
Burch RM. See Noronha-Blob L
Burchert M. See Lambrecht N
Buret A. See Li Z
Burmer GC. The Timing of p53 Inactivation in Chronic Ulcerative Colitis. Reply, 104:1890-c
Burnstock G. See Soediono P
Burt RW, Groden J. The Genetic and Molecular Diagnosis of Adenomatous Polyposis Coli, 104:1211-e
Burton MB. See Percy WH
Busch N. See Ohya T
Butler-Simon N. See Sokol R
Buzzelli G. See Gentilini P
Byl B, Roucloux I, Crusiaux A, DuPont E, Devière J. Tumor Necrosis Factor α and Interleukin 6 Plasma Levels in Infected Cirrhotic Patients, 104:1492
Byles NI. See Meddings JB

Calam J. See Moss SF
Calvo P. See Botarelli P
Camby P. See David E
Cameron AJ.
Evolution of Barrett's Esophagus: The Jury Is Still Out. Reply, 104:1236-c
Molecular Events in Barrett's Metaplasia. Reply, 104:1235-c
See Pera M
Cameron RG. See Matsui J
Campbell KL. More Problems With Aspirin: It May Cause Appendicitis. Reply, 104:1572-srr
Campion J-P. See Deugnier YM
Capella C. See Rindi G
Capocaccia L. See Angelico M
Cappelli G. See Gentilini P
Carey W. See Lefkowitch JH
Carli L. See Angelico M
Carpenter HA
See Ambroze WL Jr
See Czaja AJ
See Pera M
See Wolfsen HC
Carter K. See Paimela H
Cartun RW. See Van Kruiningen HJ
Castagliuolo I. See Pothoulakis C
Cate TR. See Genta RM
Cavalieri RJ. See Lynch HT
Chambon P. See Wright NA
Champarnaud G. See Férézou J
Chan C-Y. See Lee S-D
Chan RT. See Chan T-M
Chan T-M, Lok ASF, Cheng IKP, Chan RT. A Prospective Study of Hepatitis C Virus Infection Among Renal Transplant Recipients, 104:862
Chandler K. See Ohya T
Chang W-Y. See Chuang W-L
Chaubert P. See Benhattar J
Chaussade S. See Lucidarme D
Cheinquer H. See Liang TJ
Chen A. See Sperber K
Chen BW. See Hui WM
Chen JDZ, Mittal RK. Nausea and Vomiting of Pregnancy and Cutaneous Electrogastrogram. Comment, 104:1570-srr
Cheng IKP. See Chan T-M
Chevalier E
See Pascaud XB
See Rivière PJM
Chin BC. See Hogaboam CM
Choi PM. Predominance of Rectosigmoid Neoplasia in Ulcerative Colitis and Its Implication on Cancer Surveillance, 104:666-c
Cho CH. See Hui WM
Choo Q-L. See Botarelli P
Choudari CP, O'Mahony S, Brydon G, Mwantembe O, Ferguson A. Gut Lavage Fluid Protein Concentrations: Objective Measures of Disease Activity in Inflammatory Bowel Disease, 104:1064
Chovet M. See Pascaud XB
Chowdhury P. See Doi R
Christensen NJ. See Henriksen JH
Christl SU, Gibson GR, Murgatroyd PR, Scheppach W, Cummings JH. Impaired Hydrogen Metabolism in Pneumatosis Cystoides Intestinalis, 104:392
Christofi FL, Wood JD. Presynaptic Inhibition by Adenosine A_1 Receptors on Guinea Pig Small Intestinal Myenteric Neurons, 104:1420
Chu S-HW, Walker WA. Bacterial Toxin Interaction With the Developing Intestine, 104:916-srr
Chuang W-L, Omata M, Ehata T, Yokosuka O, Ito Y, Imazeki F, Lu S-N, Chang W-Y, Ohto M. Precore Mutations and Core Clustering Mutations in Chronic Hepatitis B Virus Infection, 104:263
Chung RT, Schapiro RH, Warshaw AL. Intraluminal Pancreatic Candidiasis Presenting as Recurrent Pancreatitis, 104:1532-cr
Cieszkowski M. See Konturek SJ
Cirera I. See Luca A
Ciucchiú S. See Fiorucci S
Clain JE. *Management of Gastrointestinal Diseases* (volumes 1 and 2), 104:1576-br
Clària J. See Asbert M
Clayton PT. See Portmann B
Cohn JA. See Basavappa S
Coll S. See Andreu M
Collins SM
See Grossi L
See Main C
See Vermillion DL
Collman PI, Tremblay L, Diamant NE. The Central Vagal Efferent Supply to the Esophagus and Lower Esophageal Sphincter of the Cat, 104:1430
Colman J. See Wong F
Colombato LA. See Albillos A
Colombel J-F
See Adenis A
See Gendre J-P
See Lucidarme D
See Van Kruiningen HJ
Cominelli F. See Youngman KR
Compton CC. See Ryan CM
Conklin JL. See Murray J
Conklin JL, Du C, Murray JA, Bates JN. Characterization and Mediation of Inhibitory Junction Potentials From Opossum Lower Esophageal Sphincter, 104:1439
Conn HO. *Hepatic Encephalopathy*, 104:1576-br
Conner C. See Sokol R
Connors PJ, Friedman LS. Pancreas Divisum: To Stent or Not to Stent. Comment, 104:1227-ss
Conrad ME, Umbreit JN, Moore EG. Rat Duodenal Iron-Binding Protein Mobilferrin Is a Homologue of Calreticulin, 104:1700
Cooper BT. See Igbal TH
Cornaggia M
See Maiuri L
See Rindi G
Correa P. See Lechago J
Cortot A
See Adenis A
See Van Kruiningen HJ
Costa J. See Benhattar J
Cragoe EJ Jr. See Tobey NA
Crantock L. See Deugnier YM
Cresteil D. See Yamamoto AM
Creutzfeldt W. See Lamberts R
Crickx B. See Marcellin P
Crombie DL. See Lillienau J
Cross D. See Bell SM
Crusiaux A. See Byl B
Culleré X. See Pérez-Tomás R
Cummings JH. See Christl SU
Cuthbertson AM. See St. John DJB

Czaja AJ, Carpenter HA, Santrach PJ, Breanndan Moore S, Homberger HA. The Nature and Prognosis of Severe Cryptogenic Chronic Active Hepatitis, 104:1755

Dabelsteen E. See Maiuri L
Dajani EZ. ω-3 Fatty Acids and Bowel Cancer, 104:1239-c
Daly JM. Immunonutrition? Reply, 104:938-ss
Dar MY. See Khuroo MS
Dash S. See Balart LA
DaSilva MM. See Woolrich AJ
David E, Rahier J, Pucci A, Camby P, Scevens M, Salizzoni M, Otte JB, Galmarini D, Marinucci G, Ottobrelli A, Marzano A, Smedile A, Fabiano A, Mollo F, Verme G, Rizzetto M. Recurrence of Hepatitis D (Delta) in Liver Transplants: Histopathological Aspects, 104:1122
Davis GL. See Lefkowitch JH
Dawra R. See Lerch MM
Deacon MC. See St. John DJB
Debennin J-P. See Lucidarme D
de Bolós C. See Gambús G
Dei R. See Bechi P
De Laet MH. See Vanderwinden J-M
De Leede LGJ. D:See Hespe W
De Medina M. See Liang TJ
Derfler K. See Swoboda K
Descamps V. See Marcellin P
Descatoire V. See Loeper J
Descos L. See Gendre J-P
Descroix-Vagne M. Regulation of Canine Gastric Mucin Synthesis and Phospholipid Secretion by Acid Secretagogues, 104:1888-c
Deugnier YM, Guyader D, Crantock L, Lopez J-M, Turlin B, Yaouanq J, Jouanolle H, Campion J-P, Launois B, Halliday JW, Powell LW, Brissot P. Primary Liver Cancer in Genetic Hemochromatosis: A Clinical, Pathological, and Pathogenetic Study of 54 Cases, 104:228
Devière J. See Byl B
Devred M. See Van Kruiningen HJ
Dewhirst FE. See Fox JG
Diamant NE
  See Collman PI
  See Salapatek AMF
Diamond RH. See Banwell JG
Díaz C. See Pérez-Tomás R
Di Bisceglie AM
  See Bacon BR
  See Hoofnagle JH
Dienstag JL. See Lefkowitch JH
DiMagno EP. A Short, Eclectic History of Exocrine Pancreatic Insufficiency and Chronic Pancreatitis, 104:1255-ceig
Dinda PK, Holitzner CA, Morris GP, Beck IT. Ethanol-Induced Jejunal Microvascular and Morphological Injury in Relation to Histamine Release in Rabbits, 104:361
Dirschedl P. See Lindemann F
Dixon MF. See Bell SM
Djordjević D, Popović OS. Intestinal Involvement in Sarcoidosis. Reply, 104:947-c
Doi R, Inoue K, Chowdhury P, Kaji H, Rayford PL. Structural and Functional Changes of Exocrine Pancreas Induced by FK506 in Rats, 104:1153
Domek MJ. See Endoh K
Donovan V. See Percy WH
Dowling RH. See Ulshen MH
Dozois RR. See Ambroze WL Jr
Drossman DA, Sandler RS, Sartor RB. Our New President—Don W. Powell, M.D., 104:1249-aga
Druml W. See Swoboda K
Du C
  See Conklin JL
  See Murray J
Dubner H, Fromm H. Ursodeoxycholic Acid Treatment of Intrahepatic Cholestasis of Pregnancy: Observations on Efficacy and Safety, Comment, 104:660-ss
Dudley F. See Wong F
Duncan A. See Roediger WEW
Duncan MD. See Benya RV
DuPont E. See Byl B
DuPont HL, Ericsson CD, Mathewson JJ, Marani S, Knellwolf-Cousin A-L, Martinez-Sandoval FG. Zaldaride Maleate, an Intestinal Calmodulin Inhibitor, in the Therapy of Travelers' Diarrhea, 104:709

Eaton RA. See Tarazi EM
Eberer AJ, Santa Ana CA, Porter J, Fordtran JS. Effect of Psyllium, Calcium Polycarbophil, and Wheat Bran on Secretory Diarrhea Induced by Phenolphthalein, 104:1007
Ebringer H. See Swoboda K
Ectors N, Henneresse P-E, Geboes K, Eyssen H, Janssens J, Vantrappen G. Animal Models for *Helicobacter pylori*, 104:1886-c
Egami K. See Ohya T
Egea G. See Gambús G
Ehata T. See Chuang W-L
Elia G. See Wright NA
Elta GH.
  Appendectomy—Will the Laparoscope Reign? Comment, 104:936-ss
  Normal Manometry Results in Group I Sphincter of Oddi Dyskinesia Patients. Reply, 104:1244-c
Endo O. See Kiba T
Endoh K, Kao J, Domek MJ, Leung FW. Mechanism of Gastric Hyperemia Induced by Intragastric Hypertonic Saline In Rats, 104:114
Ergun GA. See Kahrilas PJ
Ericsson CD. See DuPont HL
Erlinger S. See Marcellin P
Esber EJ. See Imperiale TF
Escardo J. See Altschuler SM
Eshchar J. See Broide E
Eyssen H. See Ectors N

Fabiano A. See David E
Facchini F. See Kahrilas PJ
Facer P. See Walters JRF
Falkmer UG. See Van Solinge WW
Fargeas M-J, Fioramonti J, Bueno L. Central Action of Interleukin 1β on Intestinal Motility in Rats: Mediation by Two Mechanisms, 104:377
Faris RA. See Yang L
Fayer JC. See Stahl GE
Fehr HF. See Schmassmann A
Feit D. See Lefkowitch JH
Feldmann G. See Loeper J
Fenoglio-Preiser C. *Pathology of the Gastrointestinal Tract*, 104:663-br
Féray C, Gigou M, Samuel D, Reyes G, Bernuau J, Reynes M, Bismuth H, Bréchot C. Hepatitis C Virus RNA and Hepatitis B Virus DNA in Serum and Liver of Patients With Fulminant Hepatitis, 104:549
Férézou J, Beau P, Parquet M, Champarnaud G, Lutton C, Matuchansky C. Cholesterol and Bile Acid Biodynamics After Total Small Bowel Resection and Bile Diversion in Humans, 104:1786
Ferguson A
  See Arranz E
  See Choudari CP
Fernández CM, Prieto J, Zozaya JM, Quiroga J, Guitián R. Arteriovenous Shunting, Hemodynamic Changes, and Renal Sodium Retention in Liver Cirrhosis, 104:1139
Feu F. See Luca A
Findor A. See Liang TJ
Fiocca R. See Maiuri L
Fiocchi C.
  Cytokines and Animal Models: A Combined Path to Inflammatory Bowel Disease Pathogenesis, 104:1202-e
  See Matsuura T
  See Youngman KR
Fioramonti J. See Fargeas M-J

Fiorucci S, Morelli A. Motilin and Erythromycin Stimulate Pepsinogen Secretion by Chief Cells Isolated From Guinea Pig Stomach, 104:1030
Fiorucci S, Santucci L, Ciucchiú S, Morelli A. Alkaline Esophageal Reflux—A Misnomer. Reply, 104:948-c
Fitz JG. See Basavappa S
Fitzgerald JE. See Hyams JS
Flemens EE. See Stone MJ
Flemström G. See Knutson L
Flemström G, Säfsten B, Jedstedt G. Stimulation of Mucosal Alkaline Secretion in Rat Duodenum by Dopamine and Dopaminergic Compounds, 104:825
Florent C. See Gendre J-P
Fogelson BG. See Goldstein JL
Fordtran JS. See Eberer AJ
Foschi M. See Gentilini P
Fox JG, Blanco MC, Yan L, Shames B, Polidoro D, Dewhirst FE, Paster BJ. Role of Gastric pH in Isolation of *Helicobacter mustelae* From the Feces of Ferrets, 104:86
Francí C. See Gambús G
Freedman S. See Borum M
Friedman LS.
See Connors PJ
Zinc in the Treatment of Wilson's Disease: How It Works. Comment, 104:1566-srr
Friis-Hansen L. See Van Solinge WW
Fromm H
See Dubner H
See Levenson DE
Fujita K. See Hagiwara A
Fujiwara K. See Arai M
Fuller CR. See Ulshen MH
Fuller PJ, Beveridge DJ, Taylor RG. Ileal Proglucagon Gene Expression in the Rat: Characterization in Intestinal Adaptation Using In Situ Hybridization, 104:459
Funakoshi A. See Miyasaka K
Fung J. See Starzl TE
Furness JB. See Padbury RTA
Fusamoto H
See Hagiwara H
See Tsujii M

Gallen M. See Andreu M
Galmarini D. See David E
Galmiche J-P. See Gendre J-P
Gambús G, de Bolós C, Andreu D, Francí C, Egea G, Real FX. Detection of the MUC2 Apomucin Tandem Repeat With a Mouse Monoclonal Antibody, 104:93
Gantz D. See Afdhal NH
Gao N. See Pothoulakis C
García-Pagán JC. See Luca A
Gastroenterology Board of the American Board of Internal Medicine. Recertification in Gastroenterology, 104:1220-paps
Gaus W. See Büchler M
Gauthier T. See Minuk GY
Gearty JC. See Igbal TH
Gebhard RL. 10 g of Fat per Day May Keep Gallstones Away. Reply, 104:1881-ss
Geboes K. See Ectors N
Gendre J-P, Mary J-Y, Florent C, Modigliani R, Colombel J-F, Soulé J-C, Galmiche J-P, Lerebours E, Descos L, Viteau J-M, René E, Metman E-H, Bories P, Bremondy A, Bouvry M, Lamouliatte H, Gineston J-L, Groupe d'Etudes Thérapeutiques des Affections Inflammatoires Digestives (GET AID). Oral Mesalamine (Pentasa) as Maintenance Treatment in Crohn's Disease: A Multicenter Placebo-Controlled Study, 104:435
Genta RM, Bleyzer I, Cate TR, Tandon AK, Yoffe B. In Situ Hybridization and Immunohistochemical Analysis of Cytomegalovirus-Associated Ileal Perforation, 104:1822-cr
Gentile S. See Angelico M
Gentilini P, Romanelli RG, La Villa G, Maggiore Q, Pesciullesi E, Cappelli G, Raggi VC, Foschi M, Marra F, Pinzani M, Buzzelli G, Laffi G. Effects of Low-Dose Captopril on Renal Hemodynamics and Function in Patients With Cirrhosis of the Liver, 104:588
Gerber MA. See Balart LA
Gerbes AL. See Henriksen JH
Gerhardt W. See Nordin G
German Pancreatitis Study Group. See Büchler M
Geypens BJ. See Ghoos YF
Ghoos YF, Maes BD, Geypens BJ, Mys G, Hiele MI, Rutgeerts PJ, Vantrappen G. Measurement of Gastric Emptying Rate of Solids by Means of a Carbon-Labeled Octanoic Acid Breath Test, 104:1640
Gianella RA. Enteric Infections: 50 Years of Progress, 104:1589-ceig
Gibas A. See Lefkowitch JH
Gibson GR. See Christl SU
Gigou M. See Féray C
Gilbert RJ. *The Esophagus*, 104:1232-br
Ginès A. See Asbert M
Ginès P
See Asbert M
See Badalamenti S
Gineston J-L. See Gendre J-P
Gitnick GL. See Singleton JW
Givel J-C. See Benhattar J
Glamour T. See McCullough AJ
Goddard PJ. See Paimela H
Goldstein JL, Fogelson BG, Snow JC, Schmidt LN, Mozwecz H, Layden TJ. Rabbit Esophageal Cells Possess K^+ Channels: Effect of Hyposmotic Stress on Channel Activity, 104:417
Goldstein R. See Scully LJ
Goldstein RM. See Stone MJ
Gondo K, Ueno T, Sakamoto M, Sakisaka S, Sata M, Tanikawa K. The Endothelin-1 Binding Site in Rat Liver Tissue: Light- and Electron-Microscopic Autoradiographic Studies, 104:1745
Gores GJ, Steers JL. Progress in Orthotopic Liver Transplantation for Hepatocellular Carcinoma, 104:317-e
Gorgas K. See Kadmon M
Goto M. See Yamaguchi Y
Graham DY, Lew GM, Lechago J. Antral G-Cell and D-Cell Numbers in *Helicobacter pylori* Infection: Effect of *H. pylori* eradication, 104:1655
Graham JR. Omeprazole and Gastric Polyposis in Humans, 104:1584-c
Granger DN. See Asako H
Greathead P. See Pories SE
Greenberg RB. Hospital Credentialing Standards for Physicians Who Perform Endoscopies, 104:1563-paps
Greenwald BD. See Yin J
Gremse DA, Boudreaux CW, Manci EA. Collagenous Colitis in Children, 104:906-cr
Gresky S. See Ohya T
Grisham MB. See Yamada T
Groden J. See Burt RW
Gross JB Jr. Promises, Promises: Ursodeoxycholic Acid for Primary Sclerosing Cholangitis. Comment, 104:942-ss
Grossi L, McHugh K, Collins SM. On the Specificity of Altered Muscle Function in Experimental Colitis in Rats, 104:1049
Groszmann RJ
See Albillos A
See Sieber CC
Groupe d'Etudes Thérapeutiques des Affections Inflammatoires Digestives (GET AID). See Gendre J-P
Guengerich FP. See Loeper J
Guillevin L. See Marcellin P
Guitián R. See Fernández CM

Güldütuna S, Zimmer G, Imbof M, Bhatti S, You T, Leuschner U. Molecular Aspects of Membrane Stabilization by Ursodeoxycholate, 104:1736
Guo Y-S, Beauchamp RD, Jin G-F, Townsend CM Jr, Thompson JC. Insulinlike Growth Factor-Binding Protein Modulates the Growth Response to Insulinlike Growth Factor 1 by Human Gastric Cancer Cells, 104:1595
Gurbindo C, Russo P, Sabbah S, Lohoues M-J, Seidman E. Interleukin-2 Activity of Colonic Lamina Propria Mononuclear Cells in a Rat Model of Experimental Colitis, 104:964
Guyader D. See Deugnier YM

Hagey LR. See Lillienau J
Hagiwara A, Takahashi T, Kojima O, Kitamura K, Sakakura C, Shoubayashi S, Osaki K, Iwamoto A, Lee M, Fujita K. Endoscopic Local Injection of a New Drug-Delivery Format of Peplomycin for Superficial Esophageal Cancer: A Pilot Study, 104:1037
Hagiwara H, Hayashi N, Mita E, Takehara T, Kasahara A, Fusamoto H, Kamada T. Quantitative Analysis of Hepatitis C Virus RNA in Serum During Interferon Alfa Therapy, 104:877
Hakkak R, Ronis MJJ, Badger TM. Effects of Enteral Nutrition and Ethanol on Cytochrome P450 Distribution in Small Intestine of Male Rats, 104:1611
Hall DWR. See Hespe W 1242
Hällgren R. See Adenis A
Halliday JW. See Deugnier YM
Hamasaki K. See Tsutsumi T
Hanauer SB. See Singleton JW
Harada T. See Hiraishi H
Harding LK. See Kmiot WA
Harmsen AR. See Hespe W
Harpaz N. See Yin J
Harris M. See Mishra L
Harter JG. See Tarazi EM
Harty RF. See Ren J
Harvey PRC, Strasberg SM. Will the Real Cholesterol-Nucleating and -Antinucleating Proteins Please Stand Up?, 104:646-e
Hasegawa H. See Matsushita K
Hasler WL, Soudah HC, Owyang C. A Somatostatin Analogue Inhibits Afferent Pathways Mediating Perception of Rectal Distension, 104:1390
Hayashi N
See Hagiwara H
See Ohtawa M
See Tsujii M
Hayllar J. See Bjarnason I
Hedrich D. See Karlstadt RG
Heiss FW. See Asbun HJ
Heng Y. See Krishnamurthy S
Henneresse P-E. See Ectors N
Henriksen JH, Bendtsen F, Gerbes AL, Christensen NJ, Ring-Larsen H, Sørensen TIA. Central Blood Volume in Cirrhosis. Reply, 104:1879-ss
Henry D, Robertson J. Nonsteroidal Anti-inflammatory Drugs and Peptic Ulcer Hospitalization Rates in New South Wales, 104:1083
Hepatitis Interventional Therapy Group. See Lefkowitch JH
Herbsman N. See Hornsby-Lewis L
Herfarth C. See Kadmon M
Herman AG. See Boeckxstaens GE
Hermon-Taylor J. Causation of Crohn's Disease: The Impact of Clusters, 104:643-e
Hespe W, Kamsteeg H, Harmsen AR, Hall DWR, De Leede LGJ. The Mechanism of Bismuth Absorption, 104:1242-c
Hesslewood SR. See Kmiot WA
Heubi JE. See Sokol R
Heuman DM. Hepatoprotective Properties in Ursodeoxycholic Acid, 104:1865-e
Heyman MB. See Sokol R
Hiele MI. See Ghoos YF
Higenbottam TW. See Portmann B
Hiraishi H, Terano A, Razandi M, Sugimoto T, Harada T, Ivey KJ. Role of Iron and Superoxide in Mediating Hydrogen Peroxide Injury to Cultured Rat Gastric Cells, 104:780
Hirschowitz BI. Development and Application of Endoscopy, 104:337-ceig
Hixson DC. See Yang L
Hofmann AF
See Lillienau J
See Schmassmann A
Hogaboam CM, Bissonnette EY, Chin BC, Befus AD, Wallace JL. Prostaglandins Inhibit Inflammatory Mediator Release From Rat Mast Cells, 104:122
Hogan DL. See Yao B
Hogan WJ.
Credentialing, 104:1563-paps
Gastroenterology Board Recertification: A Mandate for Continuing Scholarship, 104:1221-paps
Holitzner CA. See Dinda PK
Hollander D. Permeability in Crohn's Disease: Altered Barrier Functions in Healthy Relatives?, 104:1848-e
Holtermüller K-H. See Protzer U
Holzbach RT
See Abei M
See Ohya T
Homberg JC. See Yamamoto AM
Homberger HA. See Czaja AJ
Hontanosas M. See Yin J
Hoofnagle JH, Di Bisceglie AM, Waggoner JG, Park Y. Interferon Alpha for Patients With Clinically Apparent Cirrhosis Due to Chronic Hepatitis B, 104:1116
Hoogkamp-Korstanje JAA. See Van Kruiningen HJ
Horina JH, Petritsch W, Schmid CR, Reicht G, Wenzl H, Silly H, Krejs GJ. Treatment of Anemia in Inflammatory Bowel Disease With Recombinant Human Erythropoietin, 104:1828-cr
Hornsby-Lewis L, Herbsman N. Predicting Recurrence in Colorectal Cancer Patients. Comment, 104:1225-ss
Hoschl R. See Scott AM
Houghton M. See Botarelli P
Houssin D. See Loeper J
Howard R. See Banwell JG
Hsu JJ, O'Connor MK, Kang YW, Kim CH. Nonspecific Motor Disorder of the Esophagus: A Real Disorder or a Manometric Curiosity?, 104:1281
Hsu P. See Wong F
Hu S. See Stern RM
Huang Y. See Yin J
Hui WM, Chen BW, Kung AWC, Cho CH, Luk CT, Lam SK. Effect of Epidermal Growth Factor on Gastric Blood Flow in Rats: Possible Role in Mucosal Protection, 104:1605
Huizinga JD. See Vermillion DL
Husberg BS. See Stone MJ
Hyams JS. See Treem WR
Hyams JS, Fitzgerald JE, Treem WR, Wyzga N, Kreutzer DL. Relationship of Functional and Antigenic Interleukin 6 to Disease Activity in Inflammatory Bowel Disease, 104:1285

Iannaccone ST. See Sokol R
Igbal TH, Gearty JC, Cooper BT. Immunoproliferative Small Intestinal Disease or Celiac Disease, 104:1887-c
Igimi H. See Ohya T
Ilan Y, Nagler A, Adler R, Tur-Kaspa R, Slavin S, Shouval D. Ablation of Persistent Hepatitis B by Bone Marrow Transplantation From a Hepatitis B-Immune Donor, 104:1818-cr
Ilstrup DM. See Ambroze WL Jr
Imazeki F. See Chuang W-L

Imbof M. See Güldütuna S
Imperiale TF, Esber EJ. Preventing Infection in Cirrhotics With Gastrointestinal Hemorrhage, 104:1238-c
Inchiostro S. See Tessari P
Inoue K. See Doi R
Inoue S. See Kiba T
Isenberg JI. See Yao B
Ishak KG. See Tarazi EM
Ishikawa T. See Kadmon M
Ito S. See Paimela H
Ito T. See Tsujii M
Ito Y. See Chuang W-L
Itoh Z. See Ohtawa M
Itzkowitz S. See Sperber K
Ivey KJ. See Hiraishi H
Iwamoto A. See Hagiwara A

Jacobson IM. See Lefkowitch JH
Janin A. See Adenis A
Jankowski J. Molecular Events in Barrett's Metaplasia, 104:1235-c
Janssens J. See Ectors N
Javaid G. See Khuroo MS
Jayanthi V. See Victor S
Jedstedt G. See Flemström G
Jeejeebhoy KN. See Matsui J
Jeffers L. See Liang TJ
Jeffery R. See Wright NA
Jiménez W. See Asbert M
Jin G. See Sorrell WT
Jin G-F. See Guo Y-S
Johnson LR. See Wang J-Y
Johnson TD. See Berenson MM
Johnson TJ. See Sorrell WT
Jones MP. See Scott AM
Joshi MA. See Pothoulakis C
Jouanolle H. See Deugnier YM
Junien J-L
See Pascaud XB
See Rivière PJM
Juvonen T, Kervinen K, Kairaluoma MI, Lajunen LHJ, Kesäniemi YA. Gallstone Cholesterol Content Is Related to Apolipoprotein E Polymorphism, 104:1806

Kabir I. See Banwell JG
Kadmon M, Klünemann C, Böhme M, Ishikawa T, Gorgas K, Otto G, Herfarth C, Keppler D. Inhibition by Cyclosporin A of Adenosine Triphosphate-Dependent Transport From the Hepatocyte Into Bile, 104:1507
Kage M, Okuda K. Aetiology of Membranous Obstruction of Inferior Vena Cava. Reply, 104:1582-c
Kahrilas PJ, Lin S, Logemann JA, Ergun GA, Facchini F. Deglutitive Tongue Action: Volume Accomodation and Bolus Propulsion, 104:152
Kairaluoma MI. See Juvonen T
Kaji H. See Doi R
Kalabakas AA, Porter AJ, Mule L, Birch MJ, Pollock DJ, Swain CP. Design of a Microwave System for Endoscopy: An Experimental Study of Energy, Tissue Contact, and Hemostatic Efficacy, 104:680
Kalley-Taylor B. See Myers S
Kamada T
See Hagiwara H
See Tsujii M
Kamsteeg H. See Hespe W
Kang YW. See Hsu JJ
Kangro HO. See Van Kruiningen HJ
Kao J. See Endoh K
Kao Y-C J, Lichtenberger LM. Effect of 16,16-Dimethyl Prostaglandin E_2 on Lipidic Organelles of Rat Gastric Surface Mucosal Cells, 104:103
Kapaniris O. See Roediger WEW
Kaplan MM. New Strategies Needed for Treatment of Primary Biliary Cirrhosis?, 104:651-e
Karlstadt RG, Hedrich D, Palmer R. Upper Gastrointestinal Bleeding in the Critically Ill, 104:1885-c
Kasahara A. See Hagiwara H
Kasuga M. See Matsushita K
Kato T, Owen RL. *Lectin Binding to Glycoconjugates of the Human Gastric Fundus*, 104:1883-br
Kauppila T. See Tanila H
Kawano S. See Tsujii M
Kawczak P. See Abei M
Keighley MRB. See Kmiot WA
Kellow JE. See Scott AM
Kelly CP. See Pothoulakis C
Keppler D. See Kadmon M
Kervinen K. See Juvonen T
Kesäniemi YA. See Juvonen T
Khakee R. See Paimela H
Khalbuss WE. See Tobey NA
Khan BA. See Khuroo MS
Khuroo MS, Dar MY, Yattoo GN, Zargar SA, Javaid G, Khan BA, Boda MI. Percutaneous Drainage Versus Albendazole Therapy in Hepatic Hydatidosis: A Prospective, Randomized Study, 104:1452
Kiba T, Tanaka K, Endo O, Inoue S. Ventromedial Hypothalamic Lesions Increase Gastrointestinal DNA Synthesis Through Vagus Nerve in Rats, 104:475
Kido Y. See Matsushita K
Kim CH. See Hsu JJ
Kingma YJ. See Mintchev MP
Kirsner JB. The Specialization of Gastroenterology in America, 104:6-ceig
Kitamura K. See Hagiwara A
Kitani K. See Miyasaka K
Kiyobara T, Okuno M, Nakanishi T, Shinomura Y, Matsuzawa Y. Effect of Endothelin 1 on Ion Transport in Isolated Rat Colon, 104:1328
Klein GL. Aluminum and Hepatobiliary Complications of Triphosphopyridine Nucleotide, 104:1583-c
Klein JS
See Matsuura T
See Youngman KR
Klintmalm GBG. See Stone MJ
Klünemann C. See Kadmon M
Kmiot WA, Hesslewood SR, Smith N, Thompson H, Harding LK, Keighley MRB. Evaluation of the Inflammatory Infiltrate in Pouchitis With ^{111}In-Labeled Granulocytes, 104:981
Kmu K-M-U. See Zheng B-Y
Knellwolf-Cousin A-L. See DuPont HL
Knutson L, Knutson TW, Flemström G. Endogenous Dopamine and Duodenal Bicarbonate Secretion in Humans, 104:1409
Knutson TW. See Knutson L
Koch KL. See Stern RM
Koch TK. See Sokol R
Koff RS. A Redoubtable Obstacle to a Hepatitis C Vaccine. Comment, 104:1228-ss
Kofod H. See Buchan AMJ
Koide M. See Matsushita K
Kojima O. See Hagiwara A
Konturek PK. See Konturek SJ
Konturek SJ, Bilski J, Konturek PK, Cieszkowski M, Pawlik W. Role of Endogenous Nitric Oxide in the Control of Canine Pancreatic Secretion and Blood Flow, 104:896
Koopmans M. See Van Kruiningen HJ
Köpcke W. See Bayerdörffer E
Kopin AS. The Gastrin (or Is It CCK-B?) Receptor on the Parietal Cell is Cloned. Reply, 104:1878-ss
Koppensteiner R. See Swoboda K
Korelitz BI. See Woolrich AJ
Koretz RL.
Immunonutrition? Comment, 104:937-ss
Postoperative Feeding: Liquid Versus Solid Fuel. Comment, 104:324-ss
Korman LY. See Benya RV
Koss MA. See Yao B
Kraus ER. See Boland CR
Krawitt EL. See Singleton JW

Krejs GJ
See Horina JH
See Wildling R
Kreutzer DL. See Hyams JS
Krevsky B. Noninvasive Sphincter of Oddi Testing: What's the Score? Comment, 104:655-ss
Krishnamurthy S, Heng Y, Schuffler MD. Chronic Intestinal Pseudo-obstruction in Infants and Children Caused by Diverse Abnormalities of the Myenteric Plexus, 104:1398
Kung AWC. See Hui WM
Kuo G. See Botarelli P
Kuo GC. See Matsui J
Kupper LL. See Sandler RS
Kurian R. See Matsui J
Kwok YN. See Buchan AMJ

Laffi G. See Gentilini P
Lajunen LHJ. See Juvonen T
Lam SK. See Hui WM
Lamberts R, Creutzfeldt W, Strüber HG, Brunner G, Solcia E. Long-Term Omeprazole Therapy in Peptic Ulcer Disease: Gastrin, Endocrine Cell Growth, and Gastritis, 104:1356
Lambrecht N, Burchert M, Respondek M, Müller K-M, Peskar BM. Role of Calcitonin Gene-Related Peptide and Nitric Oxide in the Gastroprotective Effect of Capsaicin in the Rat, 104:1371
LaMont JT.
See Pothoulakis C
This Month in Gastroenterology, 104:1, 104:335, 104:671, 104:953, 104:1247, 104:1587
Lamouliatte H. See Gendre J-P
Lance P. Fecal Occult Blood Tests: What's New?, 104:1852-e
Langer M. See Swoboda K
Langholz E. High-Risk, Low Mortality in Chronic Ulcerative Colitis: Explanation. Reply, 104:1241-c
Langnas A. See Abei M
Lanspa SJ. See Lynch HT
LaRusso NF, Link AM.
Gaining Acceptance to Gastroenterology: How the Review Process Works, 104:1252-e
Tempora Mutantur, Nos et Mutamur in Illis!, 104:3-e
Larzul D. See Marcellin P
Lassiter DC. See Ren J
Launois B. See Deugnier YM
Laurin J. See Yin J
La Villa G. See Gentilini P
Lawson DEM. See Walters JRF
Layden TJ. See Goldstein JL

Lebenthal E. See Zheng B-Y
Lecce J. See Argenzio RA
Lechago J. See Graham DY
Lechago J, Correa P. Prolonged Achlorhydria and Gastric Neoplasia: Is There a Causal Relationship?, 104:1554-e
Lecomte-Houcke M. See Van Kruiningen HJ
Lederer A. See Wildling R
Lee F-Y. See Albillos A
Lee M. See Hagiwara A
Lee S-D, Lo K-J, Chan C-Y, Yu M-Y, Wang Y-J, Safary A. Immunogenicity of Inactivated Hepatitis A Vaccine in Children, 104:1129
Lee WM. The Silent Epidemic of Hepatitis C, Comment, 104:661-ss
Lefkowitch JH, Schiff ER, Davis GL, Perrillo RP, Lindsay K, Bodenheimer HC Jr, Balart LA, Ortego TJ, Payne J, Dienstag JL, Gibas A, Jacobson IM, Tamburro CH, Carey W, O'Brien C, Sampliner R, Van Thiel DH, Feit D, Albrecht J, Meschievitz C, Sanghvi B, Vaughan RD, Hepatitis Interventional Therapy Group. Pathological Diagnosis of Chronic Hepatitis C: A Multicenter Comparative Study With Chronic Hepatitis B, 104:595
Le Gallou B. See Rivière PJM
Lenz HJ, Zimmerman FG, Messmer B. Regulation of Canine Gallbladder Motility by Brain Peptides, 104:1678
Leopolder-Ochsendorf A. See Protzer U
Lerch MM, Saluja AK, Dawra R, Ramarao P, Saluja M, Steer ML. Are Early Electron-Microscopic Acinar Cell Derangementsin Opossum Pancreatitis Critical for Coagulative Necrosis at 7 Days?, 104:1237-c
Lerch MM, Saluja AK, Dawra R, Saluja M, Steer ML. The Effect of Chloroquine Administration on Two Experimental Models of Acute Pancreatitis, 104:1768
Lerch MM, Saluja AK, Rünzi M, Dawra R, Saluja M, Steer ML. Pancreatic Duct Obstruction Triggers Acute Necrotizing Pancreatitis in the Opossum, 104:853
Lerebours E. See Gendre J-P
Leung FW. See Endoh K
Leuschner U. See Güldütuna S
Levenson DE, Fromm H. 10 g of Fat per Day May Keep Gallstones Away. Comment, 104:1880-ss
Levitt MD. Rat Gastric Antidiuretic Hormone Activity and Ethanol Metabolism, 104:1582-c

Levy J. See Sokol R
Lew GM. See Graham DY
Lewandrowski K. See Ryan CM
Lewis FA. See Bell SM
Li Z, Bell C, Buret A, Robins-Browne R, Stiel D, O'Loughlin E. The Effect of Enterohemorrhagic *Escherichia coli* 0157:H7 on Intestinal Structure and Solute Transport in Rabbits, 104:467
Liang TJ, Jeffers L, Reddy RK, Silva MO, Cheinquer H, Findor A, De Medina M, Yarbough PO, Reyes GR, Schiff ER. Fulminant or Subfulminant Non-A, Non-B Viral Hepatitis: The Role of Hepatitis C and E Viruses, 104:556
Lichtenberger LM. See Kao Y-C J
Lillienau J. See Schmassmann A
Lillienau J, Crombie DL, Munoz J, Longmire-Cook SJ, Hagey LR, Hofmann AF. Negative Feedback Regulation of the Ileal Bile Acid Transport System in Rodents, 104:38
Lin S. See Kahrilas PJ
Lindbom L. See Raud J
Lindemann F, Schlimok G, Dirschedl P, Witte J, Riethmüller G. Predicting Recurrence in Colorectal Cancer Patients. Reply, 104:1226-ss
Lindsay K. See Lefkowitch JH
Link AM. See LaRusso NF
Lipp RW. See Wildling R
Lloyd JK. See Portmann B
Lo K-J. See Lee S-D
Locher J. See Schmassmann A
Loeper J, Descatoire V, Maurice M, Beaune P, Belghiti J, Houssin D, Ballet F, Feldmann G, Guengerich FP, Pessayre D. Cytochromes P-450 in Human Hepatocyte Plasma Membrane: Recognition by Several Autoantibodies, 104:203
Logemann JA. See Kahrilas PJ
Lohoues M-J. See Gurbindo C
Loiselle J, Wollin A. Mucosal Histamine Elimination and Its Effect on Acid Secretion in Rabbit Gastric Mucosa, 104:1013
Lok ASF. See Chan T-M
Lombard M, Portmann B, Neuberger J, Williams R, Tygstrup N, Ranek L, Ring-Larsen H, Rodes J, Navasa M, Trepo C, Pape G, Schou G, Badsberg JH, Andersen PK. Cyclosporin A Treatment in Primary Biliary Cirrhosis: Results of a Long-Term Placebo Controlled Trial, 104:519
Longcroft J. See Wright NA
Longmire-Cook SJ. See Lillienau J
Lopez J-M. See Deugnier YM

Lopez-Talavera JC. See Sieber CC
Losi L. See Benhattar J
Lowe VC. See Noronha-Blob L
Lu R-B. See Zheng B-Y
Lu S-N. See Chuang W-L
Luca A, Cirera I, García-Pagán JC, Feu F, Pizcueta P, Bosch J, Rodés J. Hemodynamic Effects of Acute Changes in Intra-abdominal Pressure in Patients With Cirrhosis, 104:222
Lucidarme D, Colombel J-F, Brandtzaeg P, Tulliez M, Chaussade S, Marteau P, Debennin J-P, Vaerman J-P, Rambaud J-C. α-Chain disease: Analysis of α-Chain Protein and Secretory Component in Jejunal Fluid, 104:278-cr
Luinetti O. See Rindi G
Luk CT. See Hui WM
Lund PK. See Ulshen MH
Lüttichau HR, Van Solinge WW, Nielsen FC, Rehfeld JF. Developmental Expression of the Gastrin and Cholecystokinin Genes in Rat Colon, 104:1092
Lutton C. See Férézou J
Lyles CM. See Sandler RS
Lynch HT, Smyrk TC, Watson P, Lanspa SJ, Lynch JF, Lynch PM, Cavalieri RJ, Boland CR. Genetics, Natural History, Tumor Spectrum, and Pathology of Hereditary Nonpolyposis Colorectal Cancer: An Updated Review, 104:1535-srr
Lynch JF. See Lynch HT
Lynch PM. See Lynch HT
Lynn RB. See Altschuler SM

MacPherson AJ. See Bjarnason I
Macrae FA. See St. John DJB
Madanagopalan N. See Victor S
Maes BD. See Ghoos YF
Magalong D. See Toyoda H
Maggiore Q. See Gentilini P
Maiese L. See Zheng B-Y
Maiese S. See Zheng B-Y
Main C, Blennerhassett P, Collins SM. Human Recombinant Interleukin 1β Suppresses Acetylcholine Release From Rat Myenteric Plexus, 104:1648
Maiuri L, Raia V, Fiocca R, Solcia E, Cornaggia M, Norèn O, Sjostrom H, Swallow D, Auricchio S, Dabelsteen E. Mosaic Differentiation of Human Villus Enterocytes: Patchy Expression of Blood Group A Antigen in A Nonsecretors, 104:21
Makhlouf GM. See Schubert ML
Malfertheiner P. See Büchler M
Mangel AW. See Basavappa S
Manci EA. See Gremse DA
Mannes GA. See Bayerdörffer E
Marani S. See DuPont HL
Marcellin P, Descamps V, Martinot-Peignoux M, Larzul D, Xu L, Boyer N, Pham B-N, Crickx B, Guillevin L, Belaich S, Erlinger S, Benhamou J-P. Cryoglobulinemia With Vasculitis Associated With Hepatitis C Virus Infection, 104:272-cr
Marchandise X. See Adenis A
Marinucci G. See David E
Markin RS. See Quigley EMM
Markowitz NR. See Berenson MM
Marra F. See Gentilini P
Marra G. See Anti M
Marsh MN.
  Gluten Sensitivity and Latency: Can Patterns of Intestinal Antibody Secretion Define the Great 'Silent Majority?', 104:1550-e
  See Quigley EMM
Marshall S. See Yamada T
Marteau P. See Lucidarme D
Martin P. Hepatitis C: More Than Just a Liver Disease, 104:320-e
Martinez-Sandoval FG. See DuPont HL
Martinot-Peignoux M. See Marcellin P
Mary J-Y. See Gendre J-P
Marzano A. See David E
Mascarenhas MR. See Stahl GE
Masini E. See Bechi P
Massie D. See Wong F
Mathewson JJ. See DuPont HL
Matsui J, Cameron RG, Kurian R, Kuo GC, Jeejeebhoy KN. Nutritional, Hepatic, and Metabolic Effects of Cachectin/Tumor Necrosis Factor in Rats Receiving Total Parenteral Nutrition, 104:235
Matsumoto M. See Miyasaka K
Matsuno K. See Yamaguchi Y
Matsushita K, Okabayashi Y, Hasegawa H, Koide M, Kido Y, Okutani T, Sugimoto Y, Kasuga M. In Vitro Inhibitory Effect of Somatostatin on Secretin Action in Exocrine Pancreas of Rats, 104:1146
Matsuura T, West GA, Youngman KR, Klein JS, Fiocchi C. Immune Activation Genes in Inflammatory Bowel Disease, 104:448
Matsuzawa Y. See Kiyobara T
Matuchansky C. See Férézou J
Maurice M. See Loeper J
May GR, Sutherland LR, Meddings JB. Is Small Intestinal Permeability Really Increased in Relatives of Patients With Crohn's Disease?, 104:1627
Mayer L. See Sperber K
Mazzanti R. See Bechi P
Mazzucco G. See Mondardini A
McAuliffe C. See Sandler RS
McCullough AJ, Glamour T. Differences in Amino Acid Kinetics in Cirrhosis, 104:1858-e
McElree CK. See Toyoda H
McGill JM. See Basavappa S
McHenry L Jr, Vuyyuru L, Schubert ML. *Helicobacter pylori* and Duodenal Ulcer Disease: The Somatostatin Link? Comment, 104:1573-srr
McHugh K. See Grossi L
McNeil PL. See Paimela H
Meddings JB. See May GR
Meddings JB, Sutherland LR, Byles NI, Wallace JL. Sucrose: A Novel Permeability Marker for Gastroduodenal Disease, 104:1619
Meloche RM. See Buchan AMJ
Meltzer SJ. See Yin J
Ménard D, Arsenault P, Monfils S. Maturation of Human Fetal Stomach in Organ Culture, 104:492
Mendrick DL. See Allan CH
Menko FH, Te Meerman GJ, Sampson JR. Variable Age of Onset in Hereditary Nonpolyposis Colorectal Cancer: Clinical Implications, 104:946-c 946
Mennel RG. See Stone MJ
Mentha G. See Borgeat A
Meschievitz C. See Lefkowitch JH
Messenger JP. See Padbury RTA
Messmer B. See Lenz HJ
Metman E-H. See Gendre J-P
Mezey E. Rat Gastric Antidiuretic Hormone Activity and Ethanol Metabolism. Reply, 104:1583-c
Mezey E, Palkovits M. A Potential Role for the Immune System in Gastric Acid Secretion and Peptic Ulcer Disease. Reply, 104:1875-ss
Middleton J. See Basavappa S
Mieli-Vergani G. See Vergani D
Mikkelsen HB. See Rumessen JJ
Millard S. See Roediger WEW
Miller TA. Leiomyosarcoma: Not All Gastric Malignancies Have a Dismal Prognosis. Comment, 104:941-ss
Mintchev MP, Kingma YJ, Bowes KL. Accuracy of Cutaneous Readings of Gastric Electrical Activity, 104:1273
Minuk GY, Gauthier T. The Effect of γ-Aminobutyric Acid on Hepatic Regenerative Activity Following Partial Hepatectomy in Rats, 104:217
Minutello MA. See Botarelli P
Miselis RR. See Altschuler SM
Mishra BB. See Mishra L
Mishra L. See Benya RV

Mishra L, Mishra BB, Harris M, Bayless TM, Muchmore AV. In Vitro Cell Aggregation and Cell Adhesion Molecules in Crohn's Disease, 104:772
Mita E. See Hagiwara H
Mitsuoka S. See Tsutsumi T
Mittal RK. See Chen JDZ
Mittal RK, Smith TK. Is Nitric Oxide the Noncholinergic, Nonadrenergic Neurotransmitter Responsible for Lower Esophageal Sphincter Relaxation? Comment, 104:656-ss
Miyasaka K, Sazaki N, Funakoshi A, Matsumoto M, Kitani K. Two Mechanisms of Inhibition by Bile on Luminal Feedback Regulation of Rat Pancreas, 104:1780
Miyoshi Y. See Ando H
Mizrahi S. See Bickel A
Mizumoto A. See Ohtawa M
Mochida S. See Arai M
Modigliani R. See Gendre J-P
Mollo F. See David E
Mondardini A, Pasquino P, Bernardi P, Aluffi E, Tartaglino B, Mazzucco G, Verme G, Negro F. Propafenone-Induced Liver Injury: Report of a Case and Review of the Literature, 104:1524-cr
Monfils S. See Ménard D
Mönnikes H, Schmidt BG, Taché Y. Psychological Stress-Induced Accelerated Colonic Transit in Rats Involves Hypothalamic Corticotropin-Releasing Factor, 104:716
Moody FG, Senninger N, Runkel N. Another Challenge to the Opie Myth, 104:927-e
Moore EG. See Conrad ME
Moran A. Bowel Rest and Elemental Diet in Crohn's Disease, 104:1238-c
More J. See Morteau O
Morelli A. See Fiorucci S
Morita M. See Okazaki K
Morris GP. See Dinda PK
Morteau O. Thromboxanes, Indomethacin, and Experimental Colitis. Reply, 104:1891-c
Morteau O, More J, Pons L, Bueno L. Platelet-Activating Factor and Interleukin 1 Are Involved in Colonic Dysmotility in Experimental Colitis in Rats, 104:47
Mosnier P, Rayssiguier Y, Motta C, Pelissier E, Bommelaer G. Effect of Ethanol on Rat Gastric Surfactant: A Fluorescence Polarization Study, 104:179
Moss SF, Calam J. *Helicobacter pylori* and Duodenal Ulcer Disease: The Somatostatin Link? Reply, 104:1575-srr
Motta C. See Mosnier P
Mozwecz H. See Goldstein JL
Muchmore AV. See Mishra L
Mugnai L. See Bechi P
Muhlhauser RO. See Noronha-Blob L
Mukhopadhyay DK. See Agarwal DK
Mule L. See Kalabakas AA
Müller K-M. See Lambrecht N
Munoz J. See Lillienau J
Murgatroyd PR. See Christl SU
Murray J, Conklin JL, Du C. Is Nitric Oxide the Noncholinergic, Nonadrenergic Neurotransmitter Responsible for Lower Esophageal Sphincter Relaxation? Reply, 104:657-ss
Murray JA. See Conklin JL
Mwantembe O. See Choudari CP
Myers S, Bartula L, Kalley-Taylor B. The Role of Prostaglandin I_2 and Biliary Lipids During Evolving Cholecystitis in the Rabbit, 104:248
Mys G. See Ghoos YF

Nagano K. See Tsujii M
Nagase H. See Ando H
Nagataki S. See Tsutsumi T
Nagler A. See Ilan Y
Nakamura Y. See Ando H
Nakanishi T. See Kiyobara T
Nakao K. See Tsutsumi T
Nakata K. See Tsutsumi T
Nakazawa Y. See Okazaki K
Narkewicz MR. See Sokol R
Nathanson MH. See Beuers U
Navasa M. See Lombard M
Negro F. See Mondardini A
Neuberger J. See Lombard M
Newkirk C. See Yin J
Nielsen FC
See Lüttichau HR
See Van Solinge WW
Nishimori I. See Okazaki K
Niu N. See Afdhal NH
Nolan JM. See Scott AM
Nordin G, Gerhardt W. Aspartate Aminotransferase and Iron Status—Lack of Support for Covariation, 104:665-c
Norèn O. See Maiuri L
Norfleet RG. Gastroduodenoscopy for Familial Adenomatous Polyposis?, 104:666-c
Noronha-Blob L, Lowe VC, Muhlhauser RO, Burch RM. NPC 15669, an Inhibitor of Neutrophil Recruitment, Is Efficacious in Acetic Acid-Indiced Colitis in Rats, 104:1021
Nuutinen H. See Abei M
Nwokolo CU. See Pounder RE

O'Brien C. See Lefkowitch JH
Ochsendorf FR. See Protzer U
Ochsenkühn T. See Bayerdörffer E
O'Connor MK. See Hsu JJ
Ogata I. See Arai M
Ogata S. See Sperber K
Ogawa M. See Yamaguchi Y
Ohno A. See Arai M
Ohtawa M, Mizumoto A, Hayashi N, Yanagida K, Itoh Z, Omura S. Mechanism of Gastroprokinetic Effect of EM523, an Erythromycin Derivative, in Dogs, 104:1320
Ohto M. See Chuang W-L
Ohya T, Schwarzendrube J, Busch N, Gresky S, Chandler K, Takabayashi A, Igimi H, Egami K, Holzbach RT. Isolation of a Human Biliary Glycoprotein Inhibitor of Cholesterol Crystallization, 104:527
Okabayashi Y. See Matsushita K
Okazaki K, Morita M, Nishimori I, Sano S, Toyonaga M, Nakazawa Y, Yamamoto Y, Yamamoto Y. Major Histocompatibility Antigen-Restricted Cytotoxicity in Inflammatory Bowel Disease, 104:384
O'Keane CJ. See Pothoulakis C
Okuda K. See Kage M
Okuno M. See Kiyobara T
Okutani T. See Matsushita K
Oliver MI. See Andreu M
O'Loughlin E. See Li Z
O'Mahony S. See Choudari CP
Omata M. See Chuang W-L
Omura S. See Ohtawa M
Orlando R
See Tessari P
See Tobey NA
O'Rourke JS. See Ambroze WL Jr
Ortego TJ. See Lefkowitch JH
Osaki K. See Hagiwara A
Otte JB. See David E
Otto G. See Kadmon M
Ottobrelli A. See David E
Owen RL. See Kato T
Owyang C. See Hasler WL

Padbury RTA, Furness JB, Baker RA, Toouli J,. Messenger JP. Projections of Nerve Cells From the Duodenum to the Sphincter of Oddi and Gallbladder of the Australian Possum, 104:130
Paimela H, Goddard PJ, Carter K, Khakee R, McNeil PL, Ito S, Silen W. Restitution of Frog Gastric Mucosa In Vitro: Effect of Basic Fibroblast Growth Factor, 104:1337
Palkovits M. See Mezey E

Palmer R. See Karlstadt RG
Pamberger P. See Swoboda K
Pape G. See Lombard M
Paris JC. See Van Kruiningen HJ
Park Y. See Hoofnagle JH
Parquet M. See Férézou J
Pascaud XB. See Rivière PJM
Pascaud XB, Chovet M, Soulard P, Chevalier E, Roze C, Junien J-L. Effects of a New γ Ligand, JO 1784, on Cysteamine Ulcers and Duodenal Alkaline Secretion in Rats, 104:427
Pasquino P. See Mondardini A
Paster BJ. See Fox JG
Paumgartner G
See Bayerdörffer E
See Beuers U
Pawlik W. See Konturek SJ
Payne J. See Lefkowitch JH
Pearson PJ. See Thirlby RC
Peer A. See Broide E
Pelckmans PA. See Boeckxstaens GE
Pelissier E. See Mosnier P
Pemberton JH.
The Problem With Pouchitis, 104:1209-e
See Ambroze WL Jr
Penfold JCB. See St. John DJB
Pentasa Crohn's Disease Study Group. See Singleton JW
Peppercorn MA
Anorectal Disease in AIDS, 104:1883-br
See Singleton JW
Pera M, Cameron AJ, Trastek VF, Carpenter HA, Zinsmeister AR. Increasing Incidence of Adenocarcinoma of the Esophagus and Esophagogastric Junction, 104:510
Percesepe A. See Anti M
Percy WH, Burton MB, Rose K, Donovan V, Burakoff R. In Vitro Changes in the Properties of Rabbit Colonic Muscularis Mucosae in Colitis, 104:369
Pérez-Tomás R, Culleré X, Díaz C. Immunohistochemical Localization of Transforming Growth Factor α in the Developing Rat Colon, 104:789
Perrault J. See Sokol R
Perrillo RP
See Balart LA
See Lefkowitch JH
Pesciullesi E. See Gentilini P
Peskar BM. See Lambrecht N
Pessayre D. See Loeper J
Petritsch W. See Horina JH
Pham B-N. See Marcellin P
Piat C. See Angelico M
Pike C. See Wright NA
Pinzani M. See Gentilini P
Pizcueta P. See Luca A
Polak JM. See Walters JRF
Polidoro D. See Fox JG
Pollock DJ. See Kalabakas AA
Polter D. See Stone MJ
Pons L. See Morteau O
Ponz de Leon M. See Sassatelli R
Popović OS. See Djordjević D
Pories SE, Weber TK, Simpson H, Greathead P, Steele G Jr, Summerhayes IC. Immortalization and Neoplastic Transformation of Normal Rat Colon Epithelium: An In Vivo Model of Colonic Neoplastic Progression, 104:1346
Porter AJ. See Kalabakas AA
Porter J. See Eberer AJ
Portmann B. See Lombard M
Portmann B, Stewart S, Higenbottam TW, Clayton PT, Lloyd JK, Williams R. Nodular Transformation of the Liver Associated With Portal and Pulmonary Arterial Hypertension, 104:616-cr
Post AB. Relief of Vection-Induced Motion Sickness, 104:665-c
Pothoulakis C, Kelly CP, Joshi MA, Gao N, O'Keane CJ, Castagliuolo I, LaMont JT. *Saccharomyces boulardii* Inhibits *Clostridium difficile* Toxin A Binding and Enterotoxicity in Rat Ileum, 104:1108
Poulsom R. See Wright NA
Pounder RE, Nwokolo CU. The Mechanism of Bismuth Absorption. Reply, 104:1243-c
Powell DW. See Argenzio RA
Powell LW. See Deugnier YM
Pressman SR. See Toyoda H
Prieto J. See Fernández CM
Protzer U, Ochsendorf FR, Leopolder-Ochsendorf A, Holtermüller K-H. Exacerbation of Lichen Planus During Interferon Alfa-2a Therapy for Chronic Active Hepatitis C, 104:903-cr
Pucci A. See David E
Purcell RH. The Discovery of the Hepatitis Viruses, 104:955-ceig

Quigley EMM
Aluminum and Hepatobiliary Complications of Triphosphopyridine Nucleotide. Reply, 104:1583-c
See Sorrell WT
Quigley EMM, Marsh MN, Shaffer JL, Markin RS. Hepatobiliary Complications of Total Parenteral Nutrition, 104:286-srr
Quirke P. See Bell SM
Quiroga J. See Fernández CM
Qvortrup K. See Rumessen JJ

Rachmilewitz D. See Youngman KR
Raggi VC. See Gentilini P
Rahier J. See David E
Raia V. See Maiuri L
Ramarao P. See Lerch MM
Rambaud J-C. See Lucidarme D
Ramsay MAE. See Stone MJ
Ranek L. See Lombard M
Rattner DW. See Ryan CM
Raud J, Lindbom L. Leukocyte Rolling and Firm Adhesion in the Microcirculation, 104:310-e
Rayford PL. See Doi R
Rayssiguier Y. See Mosnier P
Razandi M. See Hiraishi H
Real FX. See Gambús G
Reddy RK. See Liang TJ
Reddy SP. See Tobey NA
Redford A. See Toyoda H
Regenstein F. See Balart LA
Rehfeld JF
See Lüttichau HR
See Van Solinge WW
Reicht G. See Horina JH
Reisinger EC. See Wildling R
Ren J, Young RL, Lassiter DC, Harty RF. Calcitonin Gene-Related Peptide Mediates Capsaicin-Induced Neuroendocrine Responses in Rat Antrum, 104:485
René E. See Gendre J-P
Respondek M. See Lambrecht N
Reyes GR
See Féray C
See Liang TJ
Reynes M. See Féray C
Rhim BY. See Behar J
Richter JE. See Singh S
Richter WO. See Bayerdörffer E
Riddell RH. See Vermillion DL
Riethmüller G. See Lindemann F
Rikkers LF. See Sorrell WT
Rinaldi V. See Angelico M
Rindi G, Luinetti O, Cornaggia M, Capella C, Solcia E. Three Subtypes of Gastric Argyrophil Carcinoid and the Gastric Neuroendocrine Carcinoma: A Clinicopathologic Study, 104:994
Ring-Larsen H
See Henriksen JH
See Lombard M
Rio M-C. See Wright NA
Rivera F. See Asbert M
Rivière PJM, Pascaud X, Chevalier E, Le Gallou B, Junien J-L. Fedotozine Reverses Ileus Induced by Surgery or

Perotonitis: Action at Peripheral κ-Opioid Receptors, 104:724
Rizzetto M. See David E
Roberts IM. Hyperlipidemic Gestational Pancreatitis, 104:1560-e
Robertson J. See Henry D
Robins-Browne R. See Li Z
Robinson MG. See Singleton JW
Roddenberry J. See Balart LA
Rodés J
See Asbert M
See Lombard M 519
See Luca A
Roediger WEW, Duncan A, Kapaniris O, Millard S. Reducing Sulfur Compounds of the Colon Impair Colonocyte Nutrition: Implications for Ulcerative Colitis, 104:802
Rofman ES. *Alcoholism in North America, Europe, and Asia*, 104:663-br
Rogers JH. See Walters JRF
Rolle K. See Büchler M
Rolny P. Normal Manometry Results in Group I Sphincter of Oddi Dyskinesia Patients, 104:1243-c
Romanelli RG. See Gentilini P
Ronis MJJ. See Hakkak R
Rose K. See Percy WH
Rossi RL. See Asbun HJ
Rossi SS. See Schmassmann A
Rothbaum RJ. See Sokol R
Rotter JI
See Toyoda H
See Treem WR
Roucloux I. See Byl B
Roze C. See Pascaud XB
Ruddy S. See Shamburek RD
Rumessen JJ, Mikkelsen HB, Qvortrup K, Thuneberg L. Ultrastructure of Interstitial Cells of Cajal in Circular Muscle of Human Small Intestine, 104:343
Runkel N. See Moody FG
Rünzi M. See Lerch MM
Russell AS. See Bjarnason I
Russo P. See Gurbindo C
Rustgi AK. Molecular Genetics and Colorectal Cancer. Comment, 104:1224-ss
Rutgeerts PJ. See Ghoos YF
Ryan CM, Schmidt J, Lewandrowski K, Compton CC, Rattner DW, Warshaw AL, Tompkins RG. Gut Macromolecular Permeability in Pancreatitis Correlates With Severity of Disease in Rats, 104:890

Sabbah S. See Gurbindo C
Safary A. See Lee S-D
Säfsten B. See Flemström G
Sagar P. See Bell SM
Said HM, Thuy LP, Sweetman L, Schatzman B. Transport of the Biotin Dietary Derivative Biocytin (*N*-Biotinyl-L-lysine) in Rat Small Intestine, 104:75
Sakakura C. See Hagiwara A
Sakamoto M. See Gondo K
Sakisaka S. See Gondo K
Salapatek AMF, Diamant NE. Assessment of Neural Inhibition of the Lower Esophageal Sphincter in Cats With Esophagitis, 104:810
Salizzoni M. See David E
Saló J. See Asbert M
Saluja AK. See Lerch MM
Saluja M. See Lerch MM
Samowitz WS. See Berenson MM
Sampliner RE.
Gastrointestinal Emergencies, 104:331-br
See Lefkowitch JH
Sampson JR. See Menko FH
Samuel D. See Féray C
Sanderson IR, Walker WA. Uptake and Transport of Macromolecules by the Intestine: Possible Role in Clinical Disorders (an Update), 104:622-srr
Sandler RS. See Drossman DA
Sandler RS, Lyles CM, McAuliffe C, Woosley JT, Kupper LL. Cigarette Smoking, Alcohol, and the Risk of Colorectal Adenomas, 104:1445
Sanghvi B. See Lefkowitch JH
Sano S. See Okazaki K
Santa Ana CA. See Eberer AJ
Santrach PJ. See Czaja AJ
Santucci L. See Fiorucci S
Sarr MG. See Stark ME
Sarraf C. See Wright NA
Sartor RB
See Drossman DA
See Yamada T
Sasaki Y. See Tsujii M
Sassatelli R, Bertoni G, Serra L, Bedogni G, Ponz de Leon M. Generalized Juvenile Polyposis With Mixed Pattern and Gastric Cancer, 104:910-cr
Sata M. See Gondo K
Sazaki N. See Miyasaka K
Scapa E. See Broide E
Scevens M. See David E
Schapiro RH. See Chung RT
Schatzman B. See Said HM
Scheiman JM. See Boland CR
Scheppach W. See Christl SU
Scheuermann DW, Timmermans J-P. Differing Chemical Content of the Neuronal Populations of Submucosal Ganglionic Plexuses of the Enteric Nervous System, 104:1579-c
Schiff ER.
See Lefkowitch JH
See Liang TJ
Oxford Textbook of Clinical Hepatology, 104:1232-br
Schlimok G. See Lindemann F
Schmassmann A, Fehr HF, Locher J, Lillienau J, Schteingart CD, Rossi SS, Hofmann AF. Cholylsarcosine, a New Bile Acid Analogue: Metabolism and Effect on Biliary Secretion in Humans, 104:1171
Schmid CR. See Horina JH
Schmidt BG. See Mönnikes H
Schmidt J. See Ryan CM
Schmidt LN. See Goldstein JL
Schnedl WJ. See Wildling R
Schneider BL. See Sokol R
Schoen RE, Brandt LJ. A 19-Year-Old Woman With Unexplained Vomiting, 104:302-cch
Schölmerich J. See Büchler M
Schou G. See Lombard M
Schreiber F. See Wildling R
Schteingart CD. See Schmassmann A
Schubert ML
See McHenry L Jr
See Shamburek RD
Schubert ML, Makhlouf GM. Gastrin Secretion Induced by Distension Is Mediated by Gastric Cholinergic and Vasoactive Intestinal Peptide Neurons in Rats, 104:834
Schuffler MD. See Krishnamurthy S
Schwarzendrube J. See Ohya T
Scott AM, Kellow JE, Shuter B, Nolan JM, Hoschl R, Jones MP. Effects of Cigarette Smoking on Solid and Liquid Intragastric Distribution and Gastric Emptying, 104:410
Scott N. See Bell SM
Scully LJ, Toze C, Sengar DPS, Goldstein R. Early-Onset Autoimmune Hepatitis Is Associated With a C4A Gene Deletion, 104:1478
Seidel ER. *Polyamines in the Gastrointestinal Tract*, 104:1577-br
Seidman E. See Gurbindo C
Sengar DPS. See Scully LJ
Senninger N. See Moody FG
Sergi G. See Tessari P
Serra L. See Sassatelli R
Shaffer JL. See Quigley EMM
Shamburek RD, Ruddy S, Schubert ML. Omeprazole and Neutrophil Function. Comment, 104:939-ss
Shames B. See Fox JG
Shanahan F.
Food Allergy: Fact, Fiction, and Fatality. Comment, 104:1230-ss

See Bernstein CN
See Toyoda H
Shanahan F, Anton PA. A Potential Role for the Immune System in Gastric Acid Secretion and Peptic Ulcer Disease. Comment, 104:1874-ss
Shanahan F, Bernstein CN. Odd Forms of Inflammatory Bowel Disease: What Can They Tell Us? Comment, 104:327-ss
Shaw-Stiffel TA. See Alam Afridi S
Shea JA. See Asbun HJ
Sherlock S. The Kidneys in Hepatic Cirrhosis: Victims of Portal-Systemic Venous Shunting (Portal-Systemic Nephropathy), 104:931-e
Shiau Y-F. See Stahl GE
Shieh YSC. See Balart LA
Shields HM. *Hans Popper: A Tribute*, 104:331-br
Shim K-S. See Balart LA
Shima M. See Tsutsumi T
Shinomura Y. See Kiyobara T
Shoubayashi S. See Hagiwara A
Shouval D. See Ilan Y
Shtamler B. See Bickel A
Shuster JR. See Botarelli P
Shuter B. See Scott AM
Sieber CC, Lopez-Talavera JC, Groszmann RJ. Role of Nitric Oxide in the In Vitro Splanchic Vascular Hyporeactivity in Ascitic Cirrhotic Rats, 104:1750
Silen W. See Paimela H
Silly H. See Horina JH
Silva MO. See Liang TJ
Silvers SM. See Tobey NA
Silverstein F. Microwaves and the Gut, 104:926-e
Simon PL. See Youngman KR
Simpson H. See Pories SE
Sinatra FR. See Sokol R
Singh S, Richter JE. Alkaline Esophageal Reflux—A Misnomer, 104:947-c
Singleton JW, Hanauer SB, Gitnick GL, Peppercorn MA, Robinson MG, Wruble LD, Krawitt EL, Pentasa Crohn's Disease Study Group. Mesalamine Capsules for the Treatment of Active Crohn's Disease: Results of a 16-Week Trial, 104:1293
Sitges-Serra A. See Andreu M
Sjogren MH. The Success of Hepatitis A Vaccine, 104:1214-e
Sjostrom H. See Maiuri L
Slavin S. See Ilan Y
Small DM. See Afdhal NH
Smedile A. See David E
Smith BF. See Afdhal NH
Smith N. See Kmiot WA
Smith TK. See Mittal RK
Smyrk TC. See Lynch HT
Snow JC. See Goldstein JL
Soediono P, Belai A, Burnstock G. Prevention of Neuropathy in the Pyloric Sphincter of Streptozotocin-Diabetic Rats by Gangliosides, 104:1072
Sokol RJ, Butler-Simon N, Conner C, Heubi JE, Sinatra FR, Suchy FJ, Heyman MB, Perrault J, Rothbaum RJ, Levy J, Iannaccone ST, Schneider BL, Koch TK, Narkewicz MR. Multicenter Trial of D-α-Tocopheryl Polyethylene Glycol 1000 Succinate for Treatment of Vitamin E Deficiency in Cholestatic Children, 104:1727
Sola R. See Andreu M
Solcia E
See Lamberts R
See Maiuri L
See Rindi G
Sørensen TIA. See Henriksen JH
Sorrell WT, Quigley EMM, Jin G, Johnson TJ, Rikkers LF. Bacterial Translocation in the Portal-Hypertensive Rat: Studies in Basal Conditions and on Exposure to Hemorrhagic Shock, 104:1722
Soudah HC. See Hasler WL
Soulard P. See Pascaud XB
Soulé J-C. See Gendre J-P
Spechler SJ. Laser Photoablation of Barrett's Epithelium: Burning Issues About Burning Tissues, 104:1855-e
Specian RD. See Yamada T
Spengler U. See Beuers U
Sperber K, Ogata S, Sylvester C, Aisenberg J, Chen A, Mayer L, Itzkowitz S. A Novel Human Macrophage-Derived Intestinal Mucin Secretagogue: Implications for the Pathogenesis of Inflammatory Bowel Disease, 104:1302
Stahl GE, Mascarenhas MR, Fayer JC, Shiau Y-F, Watkins JB. Passive Jejunal Bile Salt Absorption Alters the Enterohepatic Circulation in Immature Rats, 104:163
Stamp G. See Wright NA
Stark ME, Bauer AJ, Sarr MG, Szurszewski JH. Nitric Oxide Mediates Inhibitory Nerve Input in Human and Canine Jejunum, 104:398
Starzl TE, Todo S, Tzakis A, Fung J. The Transplantation of Gastrointestinal Organs, 104:673-ceig
Steele G Jr. See Pories SE
Steer ML
See Borum M
See Lerch MM
Steers JL. See Gores GJ
Steinberg H. High-Risk, Low Mortality in Chronic Ulcerative Colitis: Explanation, 104:1241-c
Steinberg W. See Borum M
Stephens RB. See Attwood SEA
Stern RM, Hu S, Koch KL. Relief of Vection-Induced Motion Sickness. Reply, 104:665-c
Stewart S. See Portmann B
Stiel D. See Li Z
St. John DJB, Young GP, Alexeyeff MA, Deacon MC, Cuthbertson AM, Macrae FA, Penfold JCB. Evaluation of New Occult Blood Tests for detection of Colorectal Neoplasia, 104:1661
Stöckmann F. See Büchler M
Stone MJ, Klintmalm GBG, Polter D, Husberg BS, Mennel RG, Ramsay MAE, Flemens EE, Goldstein RM. Neoadjuvant Chemotherapy and Liver Transplantation for Hepatocellular Carcinoma: A Pilot Study in 20 Patients, 104:196
Strasberg SM. See Harvey PRC
Strüber HG. See Lamberts R
Suchy FJ. See Sokol R
Sugimoto T. See Hiraishi H
Sugimoto Y. See Matsushita K
Summerhayes IC. See Pories SE
Sutherland LR
See May GR
See Meddings JB
Svanvik J. See Abei M
Swain CP. See Kalabakas AA
Swallow D. See Maiuri L
Sweeting JG
Central Blood Volume in Cirrhosis. Comment, 104:1879-ss
Does the Gallbladder Secrete? Comment, 104:329-ss
Sweetman L. See Said HM
Swoboda K, Derfler K, Koppensteiner R, Langer M, Pamberger P, Brehm R, Ebringer H, Druml W, Widhalm K. Extracorporeal Lipid Elimination for Treatment of Gestational Hyperlipidemic Pancreatitis, 104:1527-cr
Sylvester C. See Sperber K
Szathmáry M. See Tulassay Z
Szurszewski JH. See Stark ME

Taché Y. See Mönnikes H
Taira T. See Tanila H
Takabayashi A. See Ohya T
Takahashi T. See Hagiwara A
Takehara T. See Hagiwara H

Talley NJ
See Wolfsen HC
See Zighelboim J
Tamaoki T. See Tsutsumi T
Tamburro CH. See Lefkowitch JH
Tanaka K. See Kiba T
Tandon AK. See Genta RM
Tanikawa K. See Gondo K
Tanila H, Kauppila T, Taira T. Inhibition of Intestinal Motility and Reversal of Postlaparotomy Ileus by Selective α_{2x}-Adrenergic Drugs in Rat, 104:819
Tarazi EM, Harter JG, Zimmerman HJ, Ishak KG, Eaton RA. Sulindac-Associated Hepatic Injury: Analysis of 91 Cases Reported to the Food and Drug Administration, 104:569
Targan SR
See Toyoda H
See Treem WR
Tartaglino B. See Mondardini A
Taylor B. See Balart LA
Taylor GR. See Bell SM
Taylor RG. See Fuller PJ
Te Meerman GJ. See Menko FH
Terano A. See Hiraishi H
Tessari P, Biolo G, Inchiostro S, Orlando R, Sergi G. Leucine and Phenylalanine Kinetics in Compensated Liver Cirrhosis: Effects of Insulin, 104:1712
Thirlby RC. More Problems With Aspirin: It May Cause Appendicitis. Comment, 104:1571-srr
Thirlby RC, Pearson PJ. Nitric Oxide Is (or Is Not) Everywhere! Comment, 104:658-ss
Thomas HJW. The Timing of p53 Inactivation in Chronic Ulcerative Colitis, 104:1889-c
Thompson H. See Kmiot WA
Thompson JC. See Guo Y-S
Thompson W. See Behar J
Thuneberg L. See Rumessen JJ
Thuy LP. See Said HM
Timmermans J-P. See Scheuermann DW
Tobey NA, Reddy SP, Khalbuss WE, Silvers SM, Cragoe EJ Jr, Orlando RC. Na^+-Dependent and -Independent Cl^-/HCO_3—Exchangers in Cultured Rabbit Esophageal Epithelial Cells, 104:185
Todo S. See Starzl TE
Tompkins RG. See Ryan CM
Tong Y. See Yin J
Toouli J. See Padbury RTA
Townsend CM Jr. See Guo Y-S
Toyoda H, Wang S-J, Yang H-Y, Redford A, Magalong D, Tyan D, McElree CK, Pressman SR, Shanahan F, Targan SR, Rotter JI. Distinct Associations of HLA Class II Genes With Inflammatory Bowel Disease, 104:741
Toyonaga M. See Okazaki K
Toze C. See Scully LJ
Trastek VF. See Pera M
Treem WR. See Hyams JS
Treem WR, Veligati LN, Rotter JI, Targan SR, Hyams JS. Ulcerative Colitis and Total Alopecia in a Mother and Her Son, 104:1187-cr
Tremblay L. See Collman PI
Trepo C. See Lombard M
Trier JS. See Allan CH
Tseng C-C. See Wolfe MM
Tsuji S. See Tsujii M
Tsujii M, Kawano S, Tsuji S, Ito T, Nagano K, Sasaki Y, Hayashi N, Fusamoto H, Kamada T. Cell Kinetics of Mucosal Atrophy in Rat Stomach Induced by Long-Term Administration of Ammonia, 104:796
Tsuruta S. See Tsutsumi T
Tsutsumi T, Nakao K, Mitsuoka S, Hamasaki K, Tsuruta S, Shima M, Nakata K, Tamaoki T, Nagataki S. Regulation of Albumin and α-Fetoprotein Gene Expression by Colloid Osmotic Pressure in Human Hepatoma Cells, 104:256
Tulassay T. See Tulassay Z
Tulassay Z, Tulassay T, Szathmáry M. Does Somatostatin Influence Kidney Function in Cirrhosis?, 104:1892-c
Tulliez M. See Lucidarme D
Tur-Kaspa R. See Ilan Y
Turlin B. See Deugnier YM
Tyan D. See Toyoda H
Tygstrup N. See Lombard M
Tzakis A. See Starzl TE

Ueno T. See Gondo K
Uhl W. See Büchler M
Ulshen MH, Dowling RH, Fuller CR, Zimmermann EM, Lund PK. Enhanced Growth of Small Bowel in Transgenic Mice Overexpressing Bovine Growth Hormone, 104:973
Umbreit JN. See Conrad ME
Unutmaz D. See Botarelli P

Vaerman J-P. See Lucidarme D
Vanderhaeghen JJ. See Vanderwinden J-M
Vanderhoof JA. Regulatory Peptides and Intestinal Growth, 104:1205-e
Vanderwinden J-M, Vanderhaeghen JJ, De Laet MH. Nitric Oxide Is (or Is Not) Everywhere! Reply, 104:659-ss
Van Kruiningen HJ, Colombel JF, Cartun RW, Whitlock RH, Koopmans M, Kangro HO, Hoogkamp-Korstanje JAA, Lecomte-Houcke M, Devred M, Paris JC, Cortot A. An In-Depth Study of Crohn's Disease in Two French Families, 104:351
Van Maercke YM. See Boeckxstaens GE
Van Noorden S. See Wright NA
Van Solinge WW. See Lüttichau HR
Van Solinge WW, Nielsen FC, Friis-Hansen L, Falkmer UG, Rehfeld JF. Expression but Incomplete Maturation of Progastrin in Colorectal Carcinomas, 104:1099
Van Thiel DH. See Lefkowitch JH
Vantrappen G
See Ectors N
See Ghoos YF
Vaughan RD. See Lefkowitch JH
Veligati LN. See Treem WR
Vergani D, Mieli-Vergani G. Type II Autoimmune Hepatitis. What Is the Role of the Hepatitis C Virus?, 104:1870-e
Verme G
See David E
See Mondardini A
Vermillion DL, Huizinga JD, Riddell RH, Collins SM. Altered Small Intestinal Smooth Muscle Function in Crohn's Disease, 104:1692
Viar MJ. See Wang J-Y
Victor S, Jayanthi V, Madanagopalan N. Aetiology of Membranous Obstruction of Inferior Vena Cava, 104:1581-c
Vila MC. See Andreu M
Viteau J-M. See Gendre J-P
Voyles NR. See Benya RV
Vuyyuru L. See McHenry L Jr

Waggoner JG. See Hoofnagle JH
Walker WA
See Chu S-HW
See Sanderson IR
Wallace JL
See Hogaboam CM
See Meddings JB
Wallaert B. See Adenis A
Walters JRF, Bishop AE, Facer P, Lawson DEM, Rogers JH, Polak JM. Calretinin and Calbindin-D28k Immunoreactivity in the Human Gastrointestinal Tract, 104:1381
Wang J-Y, Viar MJ, Johnson LR. Transglutaminase in Response to Hypertonic NaCl-Induced Gastric Mucosal Injury in Rats, 104:65
Wang S-J. See Toyoda H
Wang Y-J. See Lee S-D
Warshaw AL.
Damage Prevention Versus Damage

Control in Acute Pancreatitis, 104:1216-e
See Chung RT
See Ryan CM
Watkins JB. See Stahl GE
Watson P. See Lynch HT
Waxman I. *Endoscopic Retrograde Cholangiopancreatography: Technique, Diagnosis and Therapy*, 104:944-br
Weber TK. See Pories SE
Weiner AJ. See Botarelli P
Weinstock MA. Epidemiology and Prognosis of Anorectal Melanoma, 104:174
Wenzl H. See Horina JH
West GA
See Matsuura T
See Youngman KR
White P. See Borum M
Whitlock RH. See Van Kruiningen HJ
Whittle BJR. Modulation by Prostanoids of the Release of Inflammatory Mediators From Mast Cells: Involvement in Mucosal Protection?, 104:314-e
Widhalm K. See Swoboda K
Wiebecke B. See Bayerdörffer E
Wilder-Smith OHG. See Borgeat A
Wildling R, Schnedl WJ, Reisinger EC, Schreiber F, Lipp RW, Lederer A, Krejs GJ. Agenesis of the Dorsal Pancreas in a Woman With Diabetes Mellitus and in Both of Her Sons, 104:1182-cr
Williams R
See Lombard M
See Portmann B
Wilson JAP. *Viral Hepatitis and Liver Disease. Proceedings of the 1990 International Symposium on Viral Hepatitis and Liver Disease: Contemporary Issues and Future Prospects*, 104:944-br
Witte J. See Lindemann F
Witz E. See Broide E
Wolf RE. See Asako H
Wolfe MM, Tseng C-C. The Gastrin (or Is It CCK-B?) Receptor on the Parietal Cell is Cloned. Comment, 104:1877-ss
Wolfsen HC, Carpenter HA, Talley NJ. Menetrier's Disease: A Form of Hypertrophic Gastropathy or Gastritis?, 104:1310
Wollin A. See Loiselle J
Wong F, Massie D, Colman J, Dudley F. Glomerular Hyperfiltration in Patients With Well-Compensated Alcoholic Cirrhosis, 104:884
Wong F, Massie D, Hsu P, Dudley F. Indomethacin-Induced Renal Dysfunction in Patients With Well-Compensated Cirrhosis, 104:869
Wood JD. See Christofi FL
Woolrich AJ, DaSilva MM, Korelitz BI. Predominance of Rectosigmoid Neoplasia in Ulcerative Colitis and Its Implication on Cancer Surveillance. Reply, 104:667-c
Woosley JT. See Sandler RS
Wright NA, Poulsom R, Stamp G, Van Noorden S, Sarraf C, Elia G, Ahnen D, Jeffery R, Longcroft J, Pike C, Rio M-C, Chambon P. Trefoil Peptide Gene Expression in Gastrointestinal Epithelial Cells in Inflammatory Bowel Disease, 104:12
Wright TL. Etiology of Fulminant Hepatic Failure: Is Another Virus Involved?, 104:640-e
Wruble LD. See Singleton JW
Wyzga N. See Hyams JS

Xu L. See Marcellin P

Yamada T, Sartor RB, Marshall S, Specian RD, Grisham MB. Mucosal Injury and Inflammation in a Model of Chronic Granulomatous Colitis in Rats, 104:759
Yamaguchi Y, Matsuno K, Goto M, Ogawa M. In Situ Kinetics of Acinar, Duct, and Inflammatory Cells in Duct Ligation-Induced Pancreatitis in Rats, 104:1498
Yamamoto AM, Cresteil D, Homberg JC, Alvarez F. Characterization of Anti-Liver-Kidney Microsome Antibody (anti-LKM1) From Hepatitis C Virus-Positive and -Negative Sera, 104:1762
Yamamoto Y. See Okazaki K
Yan L. See Fox JG
Yanagida K. See Ohtawa M
Yang H-Y. See Toyoda H
Yang L, Faris RA, Hixson DC. Long-Term Culture and Characteristics of Normal Rat Liver Bile Duct Epithelial Cells, 104:840
Yao B, Hogan DL, Bukhave K, Koss MA, Isenberg JI. Bicarbonate Transport by Rabbit Duodenum In Vitro: Effect of Vasoactive Intestinal Polypeptide, Prostaglandin E_2, and Cyclic Adenosine Monophosphate, 104:732
Yaouanq J. See Deugnier YM
Yarbough PO. See Liang TJ
Yattoo GN. See Khuroo MS
Yin J, Harpaz N, Tong Y, Huang Y, Laurin J, Greenwald BD, Hontanosas M, Newkirk C, Meltzer SJ. p53 Point Mutations in Dysplastic and Cancerous Ulcerative Colitis Lesions, 104:1633
Yoffe B. See Genta RM
Yokosuka O. See Chuang W-L
You T. See Güldütuna S
Young GP. See St. John DJB
Young RL. See Ren J
Youngman KR. See Matsuura T
Youngman KR, Simon PL, West GA, Cominelli F, Rachmilewitz D, Klein JS, Fiocchi C. Localization of Intestinal Interleukin 1 Activity and Protein and Gene Expression to Lamina Propria Cells, 104:749
Yu M-Y. See Lee S-D

Zargar SA. See Khuroo MS
Zheng B-Y, K-M-U, Lu R-B, Maiese L, Maiese S, Lebenthal E. Absorption of Glucose Polymers From Rice in Oral Rehydration Solutions by Rat Small Intestine, 104:81
Zighelboim J, Talley NJ. What Are Functional Bowel Disorders?, 104:1196-vodd
Zimmer G. See Güldütuna S
Zimmerman FG. See Lenz HJ
Zimmerman HJ. See Tarazi EM
Zimmermann EM. See Ulshen MH
Zinsmeister AR. See Pera M
Zozaya JM. See Fernández CM

SUBJECT INDEX TO VOLUME 104

A_2 receptor antagonist, leukocyte-endothelial cell adhesive interactions and (rat), 104:31
A23187 calcium ionophore
FK506 and (rat), 104:1153
somatostatin and (rat), 104:1146
Abdominal pain
in agenesis of dorsal pancreas, 104:1183-cr
in collagenous colitis, 104:906-cr
in essential mixed cryoglobulinemia, 104:273-cr
Abdominal pressure, in cirrhosis, 104:222
Abdominal surgery
growth of in America, 104:6-ceig
ileus induced by, fedotozine in reversal of (rat), 104:724
Ablation, of Barrett's epithelium, 104:1855-e, 104:1686
Acetic acid
in experimental colitis (rat), 104:1021, 1049
in peritonitis (rat), 104:724
Acetylcholine
capsaicin-induced neuroendocrine responses and (rat), 104:485
colitic muscularis mucosae and (rabbit), 104:369
gallbladder motility and, 104:563
interleukin 1β and (rat), 104:1648
Achalasia, nonspecific esophageal motility disorder and, 104:1281
Achlorhydria, prolonged, gastric neoplasia and, 104:1554-e
Acid phosphatase, in M cells (rat), 104:698
Acid secretagogues, in gastric mucin synthesis, 104:1888-c
Acid secretion, mucosal histamine elimination and (rabbit), 104:1013
Acinar cells, pancreatic
in acute pancreatitis (rat), 104:1498
FK506 and (rat), 104:1153
somatostatin and (rat), 104:1146
Acquired immunodeficiency syndrome (AIDS)
anorectal disease in, 104:1883-br
ileal Kaposi sarcoma and, 104:1822-cr
Acupressure, for motion sickness, 104:665-c
Adenocarcinoma
atypical juvenile polyposis with, 104:910-cr
of esophagus and esophagogastric junction, 104:510
Adenomatous polyposis coli, genetic and molecular diagnosis of, 104:1211-e
Adenosine, leukocyte adhesion and (rat), 104:31
Adenosine A_1 receptors, presynaptic inhibition by (guinea pig), 104:1420
Adenosine deaminase, leukocyte-endothelial cell adhesive interactions and (rat), 104:31
Adenosine triphosphatase, bacterial toxin interaction with developing intestine and, 104:916-srr
Adenosine triphosphate (ATP)
in colon, 104:690
in transport from hepatocyte into bile (rat), 104:1507
Adenylate cyclase, calmodulin in up-regulation of, 104:671-tmig
Adrenaline, for coagulation of bleeding ulcers (dog), 104:680
α_2-Adrenergic drugs, intestinal motility and (rat), 104:819
Adrenocorticotropic hormone (ACTH), gallbladder motility and (dog), 104:1680
Afferent nerves
calcitonin gene-related peptide and (rat), 104:485
gastric hyperemia mechanism and (rat), 104:114
Age
anorectal melanoma and, 104:174
colorectal adenomas and, 104:137, 104:1445
Crohn's disease and, 104:351
hereditary nonpolyposis colorectal cancer and, 104:946-c
peptic ulcer and, 104:1083
sulindac-associated hepatic injury and, 104:569
AGF_1 ganglioside mixture, in prevention of neuropathy (rat), 104:1072
AGS cells, insulinlike growth factor-binding protein in modulation of growth of, 104:1595
AIDS. *See* Acquired immunodeficiency syndrome
Alanine aminotransferase (ALT)
in chronic hepatitis, 104:665-c
sinusoidal endothelial cell damage and (rat), 104:1466
Albendazole, for hepatic hydatosis, 104:1452
Albumin
gene expression, colloid osmotic pressure in regulation of, 104:256
in gut lavage fluid, 104:1064
in primary biliary cirrhosis, 104:651-e
in spontaneous bacterial peritonitis, 104:954-tmig
Alcian Blue staining, anal transition zone and, 104:514
Alcohol dehydrogenase (ADH), antidiuretic hormone and (rat), 104:1582-c
Alcohol, colorectal adenomas and, 104:1445
Alcoholism
cirrhosis and, 104:869, 104:884
liver cancer and, 104:228
in North America, Europe, and Asia, 104:663-br
Aldosterone
arteriovenous shunting and, 104:1139
in cirrhosis, 104:1485
Alkaline esophageal reflux, as misnomer, 104:947-c
Alkaline phosphatase, serum, in primary biliary cirrhosis, 104:651-e
Alkaline secretion
duodenal, JO 1784 and (rat), 104:427
mucosal, dopamine and (rat), 104:825
Alopecia, ulcerative colitis and, 104:1187-cr
Aluminum, hepatobiliary complications of triphosphopyridine nucleotide and, 104:1583-c
Alveolar ridge, deglutitive tongue action and, 104:152
American Gastroenterological Association
Our new president—Don W. Powell, M.D., 104:1249
Amiloride
endothelin 1 and (rat), 104:1328
K^+ channels and (rabbit), 104:417
pH_i regulation and (rabbit), 104:185

KEY TO ABBREVIATIONS

aga—American Gastroenterological Association
br—Book Reviews
cr—Case Reports
cch—Clinical Challenges
ceig—Commemorative Essays in Gastroenterology
c—Correspondence
e—Editorials
paps—Policy and Position Statement
ss—Selected Summaries
srr—Special Reports and Reviews
tmig—This Month in Gastroenterology
vodd—Viewpoints on Digestive Diseases

Amino acids
cholesterol crystallization in bile and, 104:527, 104:539
in cirrhosis, 104:1712, 104:1858-e, 104:1886-c
mobilferrin and (rat), 104:1700
MUC2 apomucin tandem repeat and (mouse), 104:93
transforming growth factor α (rat), 104:789
γ-Aminobutyric acid (GABA), in liver regeneration (rat), 104:217
5-Aminosalicylic acid
for Crohn's disease, 104:1247-tmig
neutrophils and, 104:954-tmig
for ulcerative colitis, 104:326-srr
Aminotransferases
in essential mixed cryoglobulinemia, 104:272-cr
in primary biliary cirrhosis, 104:651-e
Ammonia, cell kinetics in mucosal atrophy by (rat), 104:796
Amygdala, central, corticotropin-releasing factor in (rat), 104:716
Amylase
in acute pancreatitis, 104:1768
pancreatic FK506 and (rat), 104:1153
somatostatin and (rat), 104:1146
Anal transition zone, in ulcerative colitis, 104:514
Anemia, in inflammatory bowel disease, erythropoietin for, 104:1828-cr
Anesthetics, for pruritis, 104:1-tmig
Aneuploidy, in colorectal carcinoma, 104:57
Angiotensin II
gallbladder motility and (dog), 104:1680
renal hemodynamics in cirrhosis and, 104:588
Anglo-Saxon cultures, alcoholism in, 104:664-br
Anorectal melanoma, epidemiology and prognosis of, 104:174
Anorexia, cachectin/tumor necrosis factor and (rat), 104:235
Anoxia, in duodenal bicarbonate transport (rabbit), 104:732
Antibiotics, for traveler's diarrhea, 104:671-tmig, 104:709
Antibodies
in alopecia with ulcerative colitis, 104:1187-cr
calcitonin gene-related peptide (rat) and, 104:1371
in celiac disease, 104:1263
in Crohn's disease, 104:351, 104:772
to cytochrome P-450, 104:203
in gluten sensitivity, 104:1550-e
to hepatitis B core antigen, 104:549
to hepatitis C virus, 104:272-cr, 104:556, 104:862
to hepatitis E virus, 104:556
immortalized colon cell lines and (rat), 104:1346
in inflammatory bowel disease, 104:384
to insulin (rat), 104:475
monoclonal
in acute pancreatitis (rat), 104:1498
bile duct epithelial cells and (rat), 104:840
M cells and (rat), 104:698
MUC2 apomucin tandem repeat and (mouse), 104:93
Antidiuretic hormone
in cirrhosis, 104:1485
ethanol metabolism and (rat), 104:1582-c
Antigens, in mast cell activation (rat), 104:122
Antigliadin antibodies, in celiac disease, 104:1263
Antimotility compounds, for diarrhea, 104:671-tmig
Antinucleating proteins, cholesterol, 104:646-e
Antineutrophil cytoplasmic antibodies, in alopecia with ulcerative colitis, 104:1187-cr
Antioxidants, acetic acid-induced colitis and (rat), 104:1021
α-1-Antitrypsin, in gut lavage fluid, 104:1064
Antral cells
Helicobacter pylori infection and, 104:1655
somatostatin and, 104:1414
Antrofundal redistribution, acute cigarette smoking and, 104:410
Antrum, capsaicin-induced neuroendocrine responses in (rat), 104:485
Apamin, inbition of ATP response by, 104:690
APC gene
in colorectal cancer, 104:1223-ss
in familial adenomatous polyposis, 104:954-tmig, 104:989
Apolipoprotein E, gallstones and, 104:1587-tmig, 104:1806
Appendectomy, laparoscopic, 104:935-ss
Appendicitis, aspirin in, 104:1571-ss
Arachidonic acid, colitic muscularis mucosae and (rabbit), 104:369
L-Arginine
calcitonin gene-related peptide and (rat), 104:1371
in enteral nutrition, 104:936-ss
lower esophageal sphincter and (opossum), 104:1439
in nitric oxide synthesis, 104:672-tmig, 104:896
Argon laser photoablation, of Barrett's epithelium, 104:1855-e, 104:1686
Argyrophil carcinoid, gastric, subtypes of, 104:994
Argyrophil cell hyperplasia, peptic ulcer disease and, 104:1356
Arterial pressure, octreotide effect on (rat), 104:575
Arteriolar tone, in alcoholic cirrhosis, 104:884
Arteriovenous shunting, peripheral, in cirrhosis, 104:1139
Arthralgias, essential mixed cryoglobulinemia and, 104:273-cr
Ascending colon, colonic vagus nerve and (rat), 104:502
Ascites
in cirrhosis, 104:1133, 104:1139, 104:1485, 104:1750
indomethacin and, 104:869
low-dose captopril and, 104:588
in pancreatitis (rat), 104:890
in spontaneous bacterial peritonitis, 104:954-tmig
Asia, alcoholism in, 104:663-br
Aspartate aminotransferase (AST), iron status and, 104:665-c
Aspiration, for hepatic hydatosis, 104:1452
Aspirin
appendicitis and, 104:1571-ss
peptic ulcer and, 104:1083
ulcers and (rat), 104:427
Ataxia, vitamin E deficiency in, 104:1587-tmig
Atipamezole, intestinal motility and (rat), 104:819
Atrial natriuretic factor (ANF), in cirrhosis, 104:1485, 104:1878-ss
Atriopeptin II, gallbladder motility and (dog), 104:1680
Atrophic gastritis, peptic ulcer disease and, 104:1356
Atropine
distension and (rat), 104:834
endothelin 1 and (rat), 104:1328
JO 1784 and (rat), 104:427
pepsinogen and (guinea pig), 104:1030
ventromedial hypothalamic lesions and (rat), 104:475
Atropine methyl nitrate, corticotropin-releasing factor stimulatory activity and (rat), 104:716
Australia
hemochromatosis in, 104:2-tmig
peptic ulcer in, 104:1083
Autoantibodies, to cytochrome P-450, 104:203
Autoimmune disorders, ulcerative colitis and, 104:1187-cr

Axonal blocker, distension and (rat), 104:834
Azathioprine
for cryptogenic chronic active hepatitis, 104:1757
for primary biliary cirrhosis, 104:651-e
for ulcerative colitis, 104:325-srr
Azygos blood flow, in cirrhosis, 104:222

Ba^{2+}, serosal, esophageal cell K^+ channels and (rabbit), 104:417
Bacteria, translocation of in liver disease, 104:1587-tmig, 104:1722
Bacterial toxins, developing intestine and, 104:916-srr
Barrett's epithelium, ablation of, 104:1855-e, 104:1686
Barrett's esophagus
esophageal cancer and, 104:510
evolution of, 104:1236-c
molecular events in, 104:1235-c
Basal lamina, in intermediate cells of Cajal, 104:343
Basic fibroblast growth factor (bFGF), epithelial restitution and (frog), 104:1337
Basolateral membranes, ursodeoxycholate in stabilization of, 104:1736
B cells, proliferating, α chains and J chain in, 104:278
Beer drinking, colorectal adenomas and, 104:1445
Benzodiazepine analogue, cholecystokinin and, 104:1414
β blockers
central blood volume in cirrhosis and, 104:1878-ss
for variceal bleeding, 104:1247-tmig, 104:1460
Bethanechol, in esophagitis (cat), 104:810
Bicarbonate
dopamine and (rat), 104:825
in duodenum, 104:732, 104:1247-tmig, 104:1409
JO 1784 and (rat), 104:427
Bicarbonate-buffered saline, leukocyte-endothelial cell adhesive interactions and (rat), 104:31
Bilateral subdiaphragmatic vagotomy, ventromedial hypothalamic lesions and (rat), 104:475
Bile
cholesterol crystallization and, 104:527, 104:539, 104:1515
luminal feedback regulation of pancreas and (rat), 104:1780
total parenteral nutrition and, 104:286-srr
Bile acids
biodynamics of, after total enterectomy, 104:1786
in cholecystitis (rabbit), 104:248
cholylsarcosine and, 104:1171
colorectal adenomas and, 104:145
gallstone calcification and, 104:1885-c
ileal enterocytes in active transport of (guinea pig, rat), 104:38
tauroursodeoxycholic acid and (rat), 104:604
Bile canaliculus, biology of, 104:1558-e
Bile diversion, cholesterol and bile acid biodynamics after, 104:1786
Bile duct epithelial cell (BDEC) lines, normal, establishment of (rat), 104:840
Bile ducts, in hepatitis C virus infection, 104:595
Bile reflux, in acute pancreatitis, 104:853
Bile salts
cyclosporin A and (rat), 104:1507
passive absorption of (rat), 104:165
Biliary cell lines, membrane transport in, 104:1796
Biliary lipids, in cholecystitis (rabbit), 104:248
Biliary sludge, total parenteral nutrition and, 104:286-srr
Biliary tract, nerve cell projections and (Australian possum), 104:130
Bilirubin
in primary biliary cirrhosis, 104:651-e
in spontaneous bacterial peritonitis, 104:954-tmig, 104:1133
Biliopancreatic duct ligation, in acute pancreatitis (opossum), 104:853
Billroth II subjects, mucosal histamine content and, 104:1057
Bilobular right lung, in agenesis of dorsal pancreas, 104:1183-cr
Biocytin, intestinal transport of (rat), 104:75
Biotin, dietary derivative of (rat), 104:75
***N*-Biotinyl-L-lysine**, intestinal transport of, 104:75
Biplane videofluoroscopy, deglutitive tongue action and, 104:152
2′,7′-bis(carboxyethyl)-5(6)-carboxyfluorescein (BCECF), pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Bismuth
absorption mechanism of, 104:1242-c
for diarrhea, 104:671-tmig
Bivagotomy, JO 1784 and (rat), 104:427
Blacks, anorectal melanoma in, 104:174
Bladder cancer, MUC2 apomucin tandem repeat and (mouse), 104:93
Bleeding ulcers, microwave endoscopy for (dog), 104:672-tmig, 104:680, 104:926-e
Bleomycin, for squamous cell cancers, 104:953-tmig
Blocking intact inhibition, in esophagitis (cat), 104:810
Blood flow
arteriovenous shunting and, 104:1139
in cirrhosis, 104:222
gastric, epidermal growth factor and (rat), 104:1605
pancreatic, nitric oxide in, 104:672-tmig, 104:896
rice glucose polymers in oral rehydration solutions and (rat), 104:81
Blood group A antigen, mosaicism of, 104:21
Blood pressure, cyclosporin A and, 104:519
Blood tests
for familial adenomatous polyposis, 104:954-tmig
fecal occult, for bowel cancer screening, 104:1852-e, 104:1661
Body-fundus atrophic gastritis, carcinoids and, 104:994
Body mass index (BMI), colorectal adenomas and, 104:137
Body weight, gallbladder emptying stimuli and, 104:1880-ss
Bolus propulsion, deglutitive tongue action and, 104:152
Bombesin
gallbladder motility and (dog), 104:1680
somatostatin action on (rat), 104:1146
Bone marrow
α-chain protein in, 104:278-cr
in colorectal cancer, 104:1225-ss
transplantation, for hepatitis B, 104:1818-cr
Book Reviews
Alcoholism in North America, Europe, and Asia, 104:663
Anorectal Disease in AIDS, 104:1883
Endoscopic Retrograde Cholangiopancreatography: Technique, Diagnosis and Therapy, 104:944
The Esophagus, 104:1232
Gastrointestinal Emergencies, 104:331
Guide to Liver Transplantation, 104:1233
Hans Popper: A Tribute, 104:331
Hepatic Encephalopathy, 104:1576
Hepatobiliary Diseases, 104:1882
Lectin Binding to Glycoconjugates of the Human Gastric Fundus, 104:1883
Management of Gastrointestinal Diseases (volumes 1 and 2), 104:1576
Oxford Textbook of Clinical Hepatology (two-volume set), 104:1232
Pathology of the Gastrointestinal Tract, 104:663

Polyamines in the Gastrointestinal Tract, 104:1577
Viral Hepatitis and Liver Disease. Proceedings of the 1990 International Symposium on Viral Hepatitis and Liver Disease: Contemporary Issues and Future Prospects, 104:944
Bovine gallbladder mucin, in cholesterol monohydrate crystal growth, 104:1515
Bovine growth hormone, effects of on small bowel (transgenic mice), 104:973
Bowel rest, in Crohn's disease, 104:1238-c
Bowel cancer, ω-3-fatty acids and, 104:1239-c
BQ-123, endothelin 1 and (rat), 104:1328
Bradykinin, gallbladder motility and (dog), 104:1680
Brain, corticotropin-releasing factor in (rat), 104:716
Brainstem
innervation of esophagus and (cat), 104:1430
motoneuronal labeling, colonic vagus nerve and (rat), 104:502
Breast cancer, MUC2 apomucin tandem repeat and (mouse), 104:93
Breath test, to measure gastric emptying of solids, 104:1640
Bremazocine, in reversal of ileus (rat), 104:724
Bretylium, corticotropin-releasing factor stimulatory activity and (rat), 104:716
8-Bromoadenosine 3′:5′ cyclic monophosphate, somatostatin action on (rat), 104:1146
***Brucella* spp.**, in Crohn's disease, 104:351
Brunner's glands, bicarbonate secretion and (rat), 104:825
Brush border antigens, mosaicism of, 104:21
Brush border receptor, ileal, Toxin A binding to (rat), 104:1108
***Bst*N1 restriction enzyme digestion**, Ki-*ras* codon 12 mutations and, 104:59
Buerger's disease, presenting as acute small bowel ischemia, 104:1192-cr
Bumetanide, membrane transport and, 104:1796
Burns, bacterial translocation in, 104:1587-tmig
***n*-Butyrate**, reducing sulfur compounds and, 104:802

C4A gene deletion C, in early-onset autoimmune hepatitis, 104:1478
Ca^{2+}
calbindin-D28K and, 104:1381
calretinin and, 104:1381
cytosolic, tauroursodeoxycholic acid and (rat), 104:604
transglutaminase and (rat), 104:65
Cachectin, total parenteral nutrition and (rat), 104:235
Caerulein, in pancreatitis (rat), 104:890
Calbindin-D28K, immunoreactivity, in human gastrointestinal tract, 104:1381
Calcitonin, gallbladder motility and (rat), 104:1680
Calcitonin gene-related peptide (CGRP)
capsaicin-induced neuroendocrine responses and (rat), 104:485
gallbladder motility and (dog), 104:1678
nitric oxide and, in capsaicin protection (rat), 104:1371
in pyloric sphincter (rat), 104:1072
Calcium
diarrhea and, 104:709
endothelin 1 and (rat), 104:1328
gallbladder motility and, 104:563
Calcium chloride, luminal feedback regulation of pancreas and (rat), 104:1780
Calcium ionophore
FK506 and (rat), 104:1153
in mast cell activation (rat), 104:122
somatostatin and (rat), 104:1146
Calcium polycarbophil, for secretory diarrhea, 104:1007
Calmodulin inhibitor, for traveler's diarrhea, 104:671-tmig, 104:709
Calories
colorectal adenomas and, 104:1445
rice glucose polymers in oral rehydration solutions and (rat), 104:81
total parenteral nutrition and, 104:286-srr
Calreticulin, mobilferrin as homologue of (rat), 104:1700
Calretinin, immunoreactivity, in human gastrointestinal tract, 104:1381
***Campylobacter* spp.**, in Crohn's disease, 104:351
Canada, alcoholism in, 104:663-br
Canalicular membranes, ursodeoxycholate in stabilization of, 104:1736
Cancer family syndrome, hereditary nonpolyposis colorectal cancer and, 104:1535-srr
Candidiasis, intraluminal pancreatic, 104:1532-cr
Capillaries, mucosal histamine content and, 104:1057
Capsaicin
calcitonin gene-related peptide and (rat), 104:485, 104:1371
gastric hyperemia mechanism and (rat), 104:114
nitric oxide and, 104:1371
Captopril, low-dose, renal function in cirrhosis and, 104:588
Carbachol
in Crohn's disease, 104:1692
FK506 and (rat), 104:1153
muscle contraction in colitis and (rat), 104:1049
pepsinogen and (guinea pig), 104:1030
somatostatin and (rat), 104:1146
Carbaminoylcholine, in gastric mucin synthesis, 104:1888-c
Carbohydrate
cholesterol crystallization promoter in bile and, 104:539
total parenteral nutrition and, 104:286-srr
Carbon particles, adsorbing, in new drug-delivery format, 104:1037
Carboxyamidation, of gastrin, 104:1092, 1099
Carcinogenesis, bile duct cells and, 104:840
Carcinoids, identification of, 104:994
Cardiac output, in cirrhosis, 104:222
Case Reports
Ablation of persistent hepatitis B by bone marrow transplantation from a hepatitis B-immune donor, 104:1818
Acute relapsing pancreatitis as a complication of papillary stenosis after endoscopic sphincterotomy, 104:1814
Agenesis of the dorsal pancreas in a woman with diabetes mellitus and in both of her sons, 104:1182
Buerger's disease presenting as acute small bowel ischemia, 104:1192
α-Chain disease: analysis of α-chain protein and secretory component in jejunal fluid, 104:278
Chronic pancreatitis: a complication of systemic lupus erythematosis, 104:613
Collagenous colitis in children, 104:906
Cryoglobulinemia with vasculitis associated with hepatitis C virus infection, 104:272
Exacerbation of lichen planus during interferon alfa-2a therapy for chronic active hepatitis C, 104:903
Extracorporeal lipid elimination for treatment of gestational hyperlipidemic pancreatitis, 104:1527

Generalized juvenile polyposis with mixed pattern and gastric cancer, 104:910
In situ hybridization and immunohistochemical analysis of cytomegalovirus-associated ileal perforation, 104:1822
Intraluminal pancreatic candidiasis presenting as recurrent pancreatitis, 104:1532
Nodular transformation of the liver associated with portal and pulmonary arterial hypertension, 104:616
Propafenone-induced liver injury: report of a case and review of the literature, 104:1524
Treatment of anemia in inflammatory bowel disease with recombinant human erythropoietin, 104:1828
Ulcerative colitis and total alopecia in a mother and her son, 104:1187

Catecholamines, duodenal bicarbonate secretion and, 104:1409
Catechol-*O*-methyltransferase (COMT) inhibitor, bicarbonate secretion and, 104:825, 104:1409
Cathepsin B, in acute pancreatitis, 104:1768
Caucasians, anorectal melanoma in, 104:174
Caveolae, in intermediate cells of Cajal, 104:343
CCK-B receptor, parietal cell, cloning of (dog), 104:1876-ss
$CD2^+$ cells, in inflammatory bowel disease, 104:384
CD4 antibodies, in inflammatory bowel disease, 104:384
$CD4^+$ cells, in hepatitis C virus, 104:580
CD8 monoclonal antibodies, in inflammatory bowel disease, 104:384
Ceco-colonic spike bursts, IL-1β action on intestinal motility and (rat), 104:377
Cecum
colonic vagus nerve and (rat), 104:502
in Crohn's disease, 104:351
Cecum palpation, ileus induced by, fedotozine in reversal of (rat), 104:724
Celiac disease, immunoproliferative small intestinal disease and,104:1887-c
Celiacs, potential, intestinal antibodies in, 104:1263
Cell adhesion molecules, in Crohn's disease, 104:772
Cell kinetics
of acute pancreatitis (rat), 104:1498
of mucosal atrophy (rat), 104:796
Cell migration, in graft acceptance, 104:678-ceig
Cell proliferation, gastrointestinal, ventromedial hypothalamic lesions in (rat), 104:475
Central blood volume, in cirrhosis, 104:1878-ss
Centrifugal motion, deglutitive tongue action and, 104:152
Centripetal motion, deglutitive tongue action and, 104:152
α-CGRP, gallbladder motility and (dog), 104:1680
CGS 21680, synaptic behavior in myenteric neurons and (guinea pig), 104:1420
α-Chain disease, secretory component of protein in, 104:278-cr
Chemotaxis, omeprazole and, 104:938-ss
Chemotherapy
neoadjuvant, in combined modality treatment for liver cancer, 104:196
transendoscopic injection, 104:953-tmig
Chenodeoxycholate, solubilization of membrane lipids by, 104:1736
Chenodeoxycholic acid, biodynamics of, after total enterectomy, 104:1786
Chenodeoxycholylglycine, ileal enterocytes in active transport of (guinea pig, rat), 104:38
Chief cells, pepsinogen secretion by (guinea pig), 104:1030
Children
alopecia with ulcerative colitis in, 104:1187-cr
bacterial toxins in developing intestine and, 104:916-srr
collagenous colitis in, 104:906-cr
Crohn's disease in, 104:351, 104:1285
generalized juvenile polyposis in, 104:910-cr
hepatitis A vaccine in, 104:1129
pseudo-obstruction in, 104:1398
ulcerative colitis in, 104:1285
vitamin E deficiency in, 104:1587-tmig, 104:1727
Chlorambucil, for primary biliary cirrhosis, 104:651-e
Chloramphenicol acetyltransferase (CAT) plasmid transfection, colloid osmotic pressure and, 104:256
Chlorisondamine, corticotropin-releasing factor stimulatory activity and (rat), 104:716
2-Chloro-N^6-cyclopentyladenosine (CCPA), synaptic behavior in myenteric neurons and (guinea pig), 104:1420
Chloroquine, in acute pancreatitis, 104:1768
Chlorpromazine, for diarrhea, 104:714
Cholangiocarcinoma, genetic hemochromatosis associated with, 104:228
Cholangiopancreatography, endoscopic retrograde, 104:944-br
Cholecystitis, prostaglandin I_2 and biliary lipids in (rabbit), 104:248
Cholecystokinin (CCK)
developmental expression of in colon (rat), 104:1092
in esophagitis (cat), 104:810
FK506 and (rat), 104:1153
in pancreatic secretion, 104:672-tmig
pepsinogen and (guinea pig), 104:1030
somatostatin and, 104:1414
Cholecystokinin A antagonist, JO 1784 and (rat), 104:427
Cholecystokinin octapeptide (CCK-8)
in esophagitis (cat), 104:810
gallbladder motility and, 104:563, 104:1680
somatostatin and (rat), 104:1146
Cholelithiasis, total parenteral nutrition and, 104:286-srr
Cholera toxin-horseradish peroxidase tracer, colonic vagus nerve and (rat), 104:50
Cholestasis
cyclosporin and, 104:1558-e
cyclosporin A and (rat), 104:1507
itching and, 104:1-tmig, 104:244
total parenteral nutrition and, 104:286-srr
ursodeoxycholic acid for, 104:660-ss
vitamin E deficiency in, 104:1587-tmig, 104:1727
Cholestatic syndrome, propafenone in, 104:1524-cr
Cholesterol
apolipoprotein E and, 104:1587-tmig, 104:1806
biodynamics, after total enterectomy, 104:1786
ethanol and (rat), 104:179
gallbladder motility and, 104:563
high-risk colorectal adenomas and, 104:137
monohydrate crystal growth and, 104:1515
Cholesterol crystallization inhibitor, in bile, 104:527, 104:646-e
Cholesterol crystallization promoter, in bile, 104:539, 104:646-e
Cholestyramine, active ileal bile acid transport and (guinea pig, rat), 104:38
Cholic acid, biodynamics of, after total enterectomy, 104:1786
Cholinergic neurons, distension and (rat), 104:834

Cholinergic receptors, ventromedial hypothalamic lesions and (rat), 104:475
Cholylsarcosine
transport, in human biliary cell lines, 104:1796
Cl^--free solutions, in duodenal bicarbonate transport (rabbit), 104:732
Cl^-/HCO_3^- exchangers, pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Clinical Challenges
A 19-year-old woman with unexplained vomiting, 104:302
***Clostridium difficile* Toxin A**, *Saccharomyces boulardii* inhibition of (rat), 104:1108
Clustering, in Crohn's disease, 104:643-e
***c-myc* oncogene**, colorectal carcinoma and, 104:2-tmig
Coagulative necrosis, in pancreatitis (opossum), 104:1236-c
CO_2/HCO_3^- buffer, pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Cocarcinogenesis, in colorectal cancer, 104:145
Codon 12, Ki-*ras*, in colorectal carcinoma, 104:57
Coeliaco-mesenteric ganglia, neural projections and (Australian possum), 104:130
Colchicine, for primary biliary cirrhosis, 104:651-e
Colitis
eicosanoids in (rat), 104:47
interleukins in (rat), 104:47
muscle contraction in (rat), 104:1049
muscularis mucosae in (rabbit), 104:369
platelet-activating factor in (rat), 104:47
thromboxanes and indomethacin in, 104:1891-c
trinitrobenzene sulfonic acid in (rat), 104:47
Collagenous colitis, in children, 104:906-cr
Collagen type IV, in IGF-I receptor expression (rat), 104:1705
Collateral blood flow, in cirrhosis, 104:222
Colloid osmotic pressure, albumin and α-fetoprotein regulation by, 104:256
Colon
cancer
alcohol and, 104:1445
cigarette smoking and, 104:1445
c-Ki-*ras* gene mutations in, 104:57
deoxycholic acid in, 104:145
Duke's classification and, 104:2-tmig
familial adenomatous polyposis and, 104:954-tmig
fecal occult blood tests for, 104:1661, 104:1852-e
hereditary nonpolyposis, 104:946-c, 104:1535-srr
K-*ras* mutations in, 104:1044
active ileal bile acid transport and (guinea pig, rat), 104:38
in biliary secretion, 104:1171
Chromosome 5, in colorectal carcinoma, 104:2-tmig
Chromosome 5q21, in familial adenomatous polyposis, 104:954-tmig, 104:989
Chromosome 17, in colorectal carcinoma, 104:2-tmig
Chromosome 18, in colorectal carcinoma, 104:2-tmig
Cigarette smoking
colorectal adenomas and, 104:1445
intragastric distribution of a meal and, 104:410
liver cancer and, 104:228
Circular muscle, intestinal
interstitial cells of Cajal in, 104:343
nitric oxide in (dog, human), 104:398
Cirrhosis
abdominal pressure and hemodynamics in, 104:222
amino acid kinetics in, 104:1712, 104:1858-e, 104:1886-c
captopril and renal function in, 104:588
central blood volume in, 104:1878-ss
cyclosporin A for, 104:519
cytokines in, 104:1248-tmig
endothelin in, 104:1485
first bleeding in, 104:1460
hyperdynamic circulation in, 104:1579-c
gastrointestinal hemorrhage and, 104:1238-c
glomerular filtration rate in, 104:884
hepatitis B and, 104:1116
interferon alpha for, 104:953-tmig, 104:1116
interleukin 6 in, 104:1492
kidneys in, 104:931-e, 104:1892-c
liver cancer and, 104:2-tmig
new strategies needed for treatment of, 104:651-e
NSAID-induced renal dysfunction in, 104:869
peripheral arteriovenous shunting in, 104:1139
spontaneous bacteral peritonitis and, 104:954-tmig, 104:1133
tumor necrosis factor α in, 104:1492
Cisternae, in intermediate cells of Cajal, 104:343
CK-19, membrane transport and, 104:1796
c-Ki-*ras* mutation, colorectal carcinoma and, 104:2-tmig, 104:57
^{36}Cl, membrane transport and, 104:1796
Cl^-
bacterial toxin interaction with developing intestine and, 104:916-srr
in cryptosporidiosis (pig), 104:440
EHEC 0157:H7 and (rabbit), 104:467
endothelin 1 and (rat), 104:1328
molecular genetics of, 104:1223-ss
MUC2 apomucin tandem repeat and (mouse), 104:93
overnutrition and, 104:137
p53 overexpression in, 104:57
predicting recurrence of, 104:1225-ss
progastrin in, 104:1099
central representation of (rat), 104:502
cholecystokinin in (rat), 104:1092
epithelium, immortalization of (rat), 104:1346
gastrin in (rat), 104:1092
inflammation, nitric oxide in (rat), 104:759
MUC2 apomucin tandem repeat and (mouse), 104:93
nitric oxide in inhibitory innervation of, 104:690
pseudo-obstruction and, 104:1398
reducing sulfur compounds in, 104:802
transforming growth factor α in (rat), 104:789
transit, stress and (rat), 104:716
Colonocytes, malnourished, 104:802
Colony-stimulating factors (CSFs), for chronic inflammatory bowel disease, 104:328-srr
Colorectal adenomas
alcohol and, 104:1445
cigarette smoking and, 104:1445
deoxycholic acid levels in, 104:145
high-risk, overweight and, 104:137
Commemorative Essays in Gastroenterology
Development and application of endoscopy, 104:337
The discovery of the hepatitis viruses, 104:955
Enteric infections: 50 years of progress, 104:1589
A short, eclectic history of exocrine pancreatic insufficiency and chronic pancreatitis, 104:1255
The specialization of gastroenterology in America, 104:6
The transplantation of gastrointestinal organs, 104:673
Common channel theory, of acute pancreatitis, 104:853

Complementary RNA (cRNA) probes, ileal proglucagon gene expression and (rat), 104:459
Computed tomography (CT), of dorsal pancreatic agenesis, 104:1182-cr
Concanavalin A, interleukin 2 and (rat), 104:964
Confocal line scanning microscopy, tauroursodeoxycholic acid effects on cytosolic Ca^{2+} in isolated hepatocytes and (rat), 104:604
Congestion, capillary, mucosal histamine content and, 104:1057
Constipation, treatment of, 104:1007
Core clustering mutations, in chronic hepatitis B virus infection, 104:263
Coronavirus, in Crohn's disease, 104:351
Correspondence
Absence of false elevations with Kodak Ektachem lipase, 104:1580
Aetiology of membranous obstruction of inferior vena cava, 104:1581
Alkaline esophageal reflux—a misnomer, 104:947
Aluminum and hepatobiliary complications of triphosphopyridine nucleotide, 104:1583
Animal models for *Helicobacter pylori*, 104:1886
Are early electron-microscopic acinar cell derangements in opossum pancreatitis critical for coagulative necrosis at 7 days?, 104:1236
Aspartate aminotransferase and iron status—lack of support for covariation, 104:665
Biliary acidification and gallstone calcification, 104:1885
Bowel rest and elemental diet in Crohn's disease, 104:1238
Differing chemical content of the neuronal populations of submucosal ganglionic plexuses of the enteric nervous system, 104:1579
Does somatostatin influence kidney function in cirrhosis?, 104:1892
Evolution of Barrett's esophagus: the jury is still out, 104:1236
Gastroduodenoscopy for familial adenomatous polyposis?, 104:666
High risk, low mortality in chronic ulcerative colitis: explanation, 104:1241
Hyperdynamic circulation in cirrhosis: physiology or pathophysiology?, 104:1579
Immunoproliferative small intestinal disease or celiac disease, 104:1887
Intestinal involvement in sarcoidosis, 104:947
The mechanism of bismuth absorption, 104:1242
Molecular events in Barrett's metaplasia, 104:1235
Normal manometry results in group I sphincter of Oddi dyskinesia patients, 104:1243
ω-3 fatty acids and bowel cancer, 104:1239
Omeprazole and gastric polyposis in humans, 104:1584
Predominance of rectosigmoid neoplasia in ulcerative colitis and its implication on cancer surveillance, 104:666
Preventing infection in cirrhotics with gastrointestinal hemorrhage, 104:1238
Rat gastric antidiuretic hormone activity and ethanol metabolism, 104:1582
Regulation of canine gastric mucin synthesis and phospholipid secretion by acid secretagogues, 104:1888
Relief of vection-induced motion sickness, 104:665
Renal effects of aminoacid administration in cirrhosis, 104:1886
Thromboxanes, indomethacin, and experimental colitis, 104:1891
The timing of p53 inactivation in chronic ulcerative colitis, 104:1889
Upper gastrointestinal bleeding in the critically ill, 104:1885
Variable age of onset in hereditary nonpolyposis colorectal cancer: clinical implications, 104:946
Corticosteroids
for acetic acid-induced colitis (rat), 104:1021
for collagenous colitis, 104:906-cr
for cryptogenic chronic active hepatitis, 104:1755
for ulcerative colitis, 104:326-srr
Corticosterone, γ-aminobutyric acid in liver regeneration and (rat), 104:217
Corticotropin-releasing factor (CRF)
gallbladder motility and (dog), 104:1680
IL-1β action on intestinal motility and (rat), 104:377
in stress-induced accelerated colonic transit (rat), 104:716
Corynebacterium parvum, macrophage activation and (rat), 104:1466
Creatinine, serum, in primary biliary cirrhosis, 104:519
Crohn's disease
5-aminosalicylic acid for, 104:1247-tmig
bowel rest and elemental diet in, 104:1238-c
clustering in, 104:643-e
familial, 104:351
gut lavage fluids in, 104:1064
HLA class II genes in, 104:741
immune activation genes in, 104:448
interleukins in, 104:749, 104:1285
intestinal permeability in, 104:1588-tmig, 104:1627, 104:1848-e
in vitro cell aggregation and cell adhesion molecules in, 104:772
macrophage-derived mucin secretagogue in, 104:1302
mesalamine for, 104:435, 104:1293
MHC-restricted cytotoxicity in, 104:384
muscle function in, 104:1692
odd forms of, 104:327-srr
trefoil peptide gene expression in, 104:12
Cryoglobulinemia, with vasculitis, hepatitis C virus infection associated with, 104:272-cr
Cryptosporidiosis, prostanoid inhibition of NaCl absorption in (pig), 104:440
Crypt reduction, intestinal, in α-chain disease, 104:278-cr
Crystal growth assay, cholesterol crystallization and, 104:527, 104:539
Cutaneous recordings, of gastric electrical activity (dog), 104:1273
CV-6209, endothelin 1 and (rat), 104:1328
Cyclic adenosine monophosphate (cAMP)
in duodenal bicarbonate transport (rabbit), 104:732
FK506 and (rat), 104:1153
membrane transport and, 104:1796
somatostatin and (rat), 104:1146
Cyclic guanosine monophosphate (cGMP), in lower esophageal sphincter, 104:656-ss
Cycloheximide, interleukin 1β effect and (rat), 104:1648
Cyclo-oxygenase products
in chronic colitis (rat), 104:47
endothelin 1 and (rat), 104:1328
8-Cyclopentyl-1,3-dipropylxanthine, leukocyte-endothelial cell adhesive interactions and (rat), 104:32
8-Cyclopentyl-1,3-dl-methylxanthine, synaptic behavior in myenteric neurons and (guinea pig), 104:1420
Cyclosporin
for alopecia with ulcerative colitis, 104:1187-cr
cholestasis and, 104:1558-e
for primary biliary cirrhosis, 104:651-e

Cyclosporin A
inhibition, of bile salt transport (rat), 104:1507
for primary biliary cirrhosis, 104:519
***CYP* series isozymes**, in small intestine (rat), 104:1611
Cysteamine
in lower esophageal sphincter relaxation, 104:657-ss
ulcers, JO 1784 for (rat), 104:427
Cysteinyl leukotrienes, cyclosporin A and (rat), 104:1507
Cystic fibrosis transmembrane conductance regulator (CFTR), membrane transport and, 104:1796
Cytochrome b_{-245}, omeprazole and, 104:938-ss
Cytochrome P-450
distribution of in small intestine (rat), 104:1611
in human hepatocyte plasma membrane, 104:203
Cytokeratins, in BDEC lines (rat), 104:840
Cytokines
animal models and, 104:1202-e
in cirrhosis, 104:1492
in inflammatory bowel disease, 104:1285
in predicting mortality in infected cirrhotics, 104:1248-tmig
Cytomegalovirus (CMV), ileal perforation and, 104:1822-cr
Cytosol, Ca^{2+} in, tauroursodeoxycholic acid effects on (rat), 104:604
Cytotoxicity, T cell-mediated, in inflammatory bowel disease, 104:384

Dansylcadaverine, transglutaminase and (rat), 104:65
D cells
capsaicin-induced neuroendocrine responses and (rat), 104:485
Helicobacter pylori infection and, 104:1655
peptic ulcer disease and, 104:1356
somatostatin and, 104:1414
Deep tendon reflexes, diminished, vitamin E deficiency in, 104:1587-tmig
Deferoxamine, hydrogen peroxide damage and (rat), 104:780
Deglutitive tongue action, volume accomodation and bolus propulsion, 104:152
Deglycosylation, cholesterol crystallization and, 104:527, 104:539
Degranulation, omeprazole and, 104:938-ss
Dehydration, total parenteral nutrition and (rat), 104:235
Dendrites, colonic motoneuron (rat), 104:502
Deoxycholic acid, serum, colorectal adenomas and, 104:145
Devazepide, JO 1784 and (rat), 104:427
Developed countries, cholesterol-supersaturated bile in, 104:527
Dexamethasone
acetic acid-induced colitis and (rat), 104:1021
neutrophils and, 104:954-tmig
Dextran, colloid osmotic pressure and, 104:256
Diabetes
dorsal pancreas agenesis and, 104:1182-cr
pyloric sphincter nerves and (rat), 104:1072
Diamine oxidase inhibitor, in Crohn's disease, 104:1692
Diarrhea
chlorpromazine for, 104:714
in collagenous colitis, 104:906-cr
in cryptosporidiosis (pig), 104:440
phenolphthalein-induced, 104:1007
zaldiride maleate for, 104:671-tmig, 104:709
Diet
biotin and (rat), 104:75
in celiac disease, 104:1263
gallstones and, 104:1880-ss
Diffuse esophageal spasm, nonspecific esophageal motility disorder and, 104:1281
4,4′-Diisothiocyanatostilbene-2,2′-disulfonic acid (DIDS)
in duodenal bicarbonate transport (rabbit), 104:732
membrane transport and, 104:1796
pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Dilatation, capillary, mucosal histamine content and, 104:1057
Dil dye, neural projections and (Australian possum), 104:130
3,7-Dimethyl-1-propargylxanthine, leukocyte-endothelial cell adhesive interactions and (rat), 104:32
16,16-Dimethyl prostaglandin E_2 (dmPGE$_2$)
in ethanol-induced microvascular injury (rabbit), 104:361
in gastric mucous cells (rat), 104:103
in mast cell activation (rat), 104:122
Dinitrophenol, M cells and (rat), 104:698
Diphenhydramine, endothelin 1 and (rat), 104:1328
Diploidy, in colorectal carcinoma, 104:57
1,3-Dipropyl-8-*p*-sulfophenylxanthine, synaptic behavior in myenteric neurons and (guinea pig), 104:1420
Disaccharidase, rice glucose polymers in oral rehydration solutions and (rat), 104:81
Distal necrosis, essential mixed cryoglobulinemia and, 104:273-cr
Distension
gastric secretion induced by (rat), 104:834
octreotide and, 104:1248-tmig
2,5-Di-(*tert*-butyl)-1,4-benzohydroquinone, tauroursodeoxycholic acid and (rat), 104:604
Diuresis, total parenteral nutrition and (rat), 104:235
DNA synthesis
γ-aminobutyric acid in liver regeneration and (rat), 104:217
ventromedial hypothalamic lesions and (rat), 104:475
Domperidone, bicarbonate secretion and (rat), 104:825
Dopamine, bicarbonate secretion and, 104:825, 104:1409
Dopamine receptor agonists, bicarbonate secretion and (rat), 104:825
Dorsal pancreas, agenesis of, 104:1182-cr
Dorsal root ganglia, neural projections and (Australian possum), 104:130
Doxorubicin, in combined modality treatment for liver cancer, 104:196
DPDPE, ileus and (rat), 104:724
DQ region, HLA class II molecule, in inflammatory bowel disease, 104:671-tmig, 104:741
DR region, HLA class II molecule, in inflammatory bowel disease, 104:671-tmig, 104:741
Dual isotope gastric scintigraphy, in habitual smokers, 104:410
Duct cells, in acute pancreatitis (rat), 104:1498
Duke's classification
for colorectal carcinoma, 104:1044
molecular basis for, 104:2-tmig
Duodenum
bicarbonate in, 104:732, 104:1247-tmig, 104:1409
α-chain protein in, 104:278-cr
dopamine in (rat), 104:825
EM523 and (dog), 104:1320
in pancreatitis (rat), 104:890
pseudo-obstruction and, 104:1398
ulcers
basic fibroblast growth factor and (frog), 104:1337
Helicobacter pylori gastritis and, 104:1573-ss

JO 1784 for (rat), 104:427
somatostatin and, 104:1573-ss
Dysplasia, liver cell, in hepatitis C virus infection, 104:595

e antigen, hepatitis B virus mutations and, 104:263
Early oral feeding, following removal of nasogastric tube, 104:324-srr
ED1 monoclonal antibody, in acute pancreatitis (rat), 104:1498
Edema
in acute pancreatitis, 104:1768
in Menetrier's disease, 104:1310
mucosal histamine content and, 104:1057
Editorials
Another challenge to the Opie myth, 104:927
Causation of Crohn's disease: the impact of clusters, 104:643
Cyclosporin, the biology of the bile canaliculus, and cholestasis, 104:1558
Cytokines and animal models: a combined path to inflammatory bowel disease pathogenesis, 104:1202
Damage prevention versus damage control in acute pancreatitis, 104:1216
Differences in amino acid kinetics in cirrhosis, 104:1858
Etiology of fulminant hepatic failure: is another virus involved?, 104:640
Fecal occult blood tests: what's new?, 104:1852
Gaining acceptance to GASTROENTEROLOGY: How the review process works, 104:1252
The genetic and molecular diagnosis of adenomatous polyposis coli, 104:1211
Gluten sensitivity and latency: can patterns of intestinal antibody secretion define the great 'silent majority?', 104:1550
Hepatitis C: more than just a liver disease, 104:320
Hepatoprotective properties of ursodeoxycholic acid, 104:1865
Hyperlipidemic gestational pancreatitis, 104:1560
The kidneys in hepatic cirrhosis: victims of portal-systemic venous shunting (portal-systemic nephropathy), 104:931
Laser photoablation of Barrett's epithelium: burning issues about burning tissues, 104:1855
Leukocyte rolling and firm adhesion in the microcirculation, 104:310
Microwaves and the gut, 104:926
Modulation by prostanoids of the release of inflammatory mediators from mast cells: involvement in mucosal protection?, 104:314
New strategies needed for treatment of primary biliary cirrhosis?, 104:651
Permeability in Crohn's disease altered barrier functions in healthy relatives?, 104:1848
The problem with pouchitis, 104:1209
Progress in orthotopic liver transplantation for hepatocellular carcinoma, 104:317
Prolonged achlorhydria and gastric neoplasia: is there a causal relationship?, 104:1554
Regulatory peptides and intestinal growth, 104:1205
The success of hepatitis A vaccine, 104:1214
Tempora Mutantur, nos et mutamur in illis!, 104:3
Type II autoimmune hepatitis. What is the role of the hepatitis C virus?, 104:1870
Will the real cholesterol-nucleating and -antinucleating proteins please stand up?, 104:646
Eicosanoids
in chronic colitis (rat), 104:47
in cryptosporidiosis (pig), 104:440
Elderly, intraluminal pancreatic candidiasis in, 104:1532-cr
Electrical stimulation, for pain relief, 104:665-c
Electrogastraphy, cutaneous
accuracy of (dog), 104:1273
nausea and vomiting of pregnancy and, 104:1569-ss
Electrolytes, in cryptosporidiosis (pig), 104:440
Electromyography
IL-1β action on intestinal motility and (rat), 104:377
trinitrobenzene sulfonic acid and (rat), 104:47
Electron-microscopic autoradiography, of endothelin 1 binding site in liver (rat), 104:1745
Electron paramagnetic resonance spectroscopy, membrane stabilization and, 104:1736
Electrophoresis, cholesterol crystallization and, 104:527, 104:539
Elemental diet, in Crohn's disease, 104:1238-c
EM523, mechanism of gastroprokinetic effect of (dog), 104:1320
Emergencies, gastrointestinal, management of, 104:331-br
Emptying, gastric
cigarette smoking effects on, 104:410
of solids, breath test for measurement of, 104:1640
Endocrine cells, peptic ulcer disease and, 104:1356
Endocrine tumors, gastric, subtypes of, 104:994
Endoplasmic reticulum, MUC2 apomucin tandem repeat and (mouse), 104:93
β-Endorphin, gallbladder motility and (dog), 104:1680
Endorphins, transcutaneous nerve stimulation and, 104:665-c
Endoscopic retrograde cholangiopancreatography, technique, diagnosis, and therapy, 104:944-br
Endoscopic retrograde pancreatography, of dorsal pancreatic agenesis, 104:1182-cr
Endoscopic sphincterotomy, acute relapsing pancreatitis after, 104:1814-cr
Endoscopy
development and application of, 104:337-ceig
hospital credentialing standards for physicians performing, 104:1563-paps, 104:1563
microwave system for (dog), 104:672-tmig,104:680, 104:926-e
short history of, 104:335-tmig
transendoscopic injection chemotherapy and, 104:953-tmig
Endosomal-lysosomal system, in M cells (rat), 104:698
Endothelial adhesion molecule 1 (ELAM-1), in inflammatory bowel disease, 104:1568-ss
Endothelial cells, leukocyte adhesion and (rat), 104:31
Endothelin
binding site, in liver (rat), 104:1745
in cirrhosis, 104:1485
in liver and intestinal diseases, 104:1247-tmig
Endothelin 1, colonic ion transport and (rat), 104:1328
Endothelium-derived relaxing factor (EDRF), in lower esophageal sphincter relaxation, 104:657-ss
Endotoxin
macrophage activation and (rat), 104:1466

portal-systemic nephropathy and, 104:932-e
Energy, biocytin and (rat), 104:75
Enkephalins
neural projections and (Australian possum), 104:130
plasma, itching and, 104:1-tmig, 244
Enteral nutrition
cytochrome P450 distribution in small intestine and (rat), 104:1611
immune-enhancing supplements with, 104:936-33
Enterectomy, total, cholesterol and bile acid biodynamics after, 104:1786
Enteric infections, 50 years of progess, 104:1589-ceig
Enteric nerve circuits, from duodenum to biliary tract (Australian possum), 104:130
Enteric pathogens
in Crohn's disease, 104:351
epithelial signal transduction mechanisms for invasion and, 104:326-srr
Enteric stimulation, total parenteral nutrition and, 104:286-srr
Enterochromaffinlike cell carcinoids, gastric endocrine tumors and, 104:994
Enterocytes
ileal, in active bile acid transport (guinea pig, rat), 104:38
mosaicism of brush border antigens on, 104:21
villus, mosaic differentiation of, 104:21
Enteroglucagon, phytohemagglutinin lectin exposure and (rat), 104:1669
Enterohepatic circulation, passive jejunal bile salt absorption and (rat), 104:165
Enterotoxins, secretory, in diarrhea, 104:671-tmig, 104:709
Environmental factors, colorectal adenomas and, 104:1445
Enzyme immunoassay (EIA), of hepatitis C virus, 104:862
Enzyme-linked immunosorbent assay (ELISA)
of anti-HEV IgM antibodies, 104:556
of celiac disease, 104:1263
of Crohn's disease, 104:351
of gut lavage fluid, 104:1064
of hepatitis A virus, 104:1129
of interleukin 6, 104:1285
Eosinophilia, sulindac-associated hepatic injury and, 104:569
7-Epicholic acid, biodynamics of, after total enterectomy, 104:1786
Epidermal growth factor (EGF)
in gastric blood flow (rat), 104:1605
receptor, *Salmonella typhimurium* and, 104:326-srr
Epithelial cells
basic fibroblast growth factor and (frog), 104:1337
in human fetal stomach, 104:492
in inflammatory bowel disease, 104:12
mosaicism of brush border antigens in, 104:21
MUC2 apomucin tandem repeat and (mouse), 104:93
pH_i regulation in (rabbit), 104:185
trefoil peptide gene expression in, 104:12
Epithelial receptors, in α-chain disease, 104:278-cr
Erythromycin
EM523 and (dog), 104:1320
pepsinogen and (guinea pig), 104:1030
Erythropoietin, for anemia in inflammatory bowel disease, 104:1828-cr
Escherichia coli
binding of to epithelial cells, 104:327-srr
EHEC 0157:H7, verotoxin and, 104:336-tmig, 104:467
enterotoxigenic, in traveler's diarrhea, 104:671-tmig, 104:709 671
E-selectin, in inflammatory bowel disease, 104:1568-ss
Esophageal cells
basolateral K^+ channels in (rabbit), 104:417
pH_i regulation in (rabbit), 104:185
Esophagitis, natural inhibition in (cat), 104:810
Esophagogastric junction, adenocarcinoma of, 104:510
Esophagus
adenocarcinoma of, 104:510
brainstem innervation of (cat), 104:1430
cancer, peplomycin for, 104:953-tmig, 104:1037
nonspecific motor disorder of, 104:1281
overview of, 104:1232-br
Ethanol
cytochrome P450 distribution in small intestine and (rat), 104:1611
gastric surfactant and (rat), 104:179
intraluminal, jejunal effects of (rabbit), 104:361
metabolism, antidiuretic hormone and (rat), 104:1582-c
sucrose permeability and, 104:1619
ulcers and (rat), 104:427
5′-*N*-Ethylcarboxamidoadenosine, synaptic behavior in myenteric neurons and (guinea pig), 104:1420
Ethylenediaminetetraacetic acid (EDTA), in colonic inflammation (rat), 104:759
Ethylene glycol-bis(B-amynomethyl ether)-*N,N,N′,N′*-tetraacetic acid, in isolating chief cells (guinea pig), 104:1030
Europe, alcoholism in, 104:663-br
Extracellular matrix, in IGF-I receptor expression (rat), 104:1705
Extracorporeal lipid-elimination, for hyperlipidemic pancreatitis, 104:1527-cr, 104:1560-e

Familial adenomatous polyposis
APC gene in, 104:989
blood test for, 104:954-tmig
gastroduodenoscopy for, 104:666-c
Fast Blue dye, neural projections and (Australian possum), 104:130
Fat
dietary, gallstones and, 104:1880-ss
in hepatitis C virus infection, 104:595
Fatty acids
bowel cancer and, 104:1239-c
enteral nutrition and, 104:936-ss
Fecal occult blood tests, for bowel cancer screening, 104:1661, 104:1852-e
Feces
bile acids in, 104:145
Helicobacter mustelae in (ferret), 104:86
in pneumatosis cystoides intestinalis, 104:392
in secretory diarrhea, 104:1007
Fedotozine, in reversal of ileus (rat), 104:724
Feedback regulation, pancreas and (rat), 104:1780
Feline esophagitis, natural inhibition in (cat), 104:810
Fentanyl, ileus and (rat), 104:724
Ferritin, aspartate aminotransferase and, 104:665-c
Fetal stomach, human, in organ culture, 104:492
α-Fetoprotein, gene expression, colloid osmotic pressure in regulation of, 104:256
Fiber-holding agents, for treatment of diarrhea, 104:1007
Fibrin, in hepatic necrosis (rat), 104:1466
Fibroblasts, in acute pancreatitis (rat), 104:1498
Fiftieth anniversary, of GASTROENTEROLOGY, 104:3-e
Finland
apolipoprotein E and gallstones in, 104:1587-tmig, 104:1806
propofol and hepatic pruritis in, 104:244
FK506, effects of on exocrine pancreas (rat), 104:1153

Flow cytometry, colorectal carcinoma and, 104:59
Fluconazole, for intraluminal pancreatic candidiasis, 104:1532-cr
Fluorescence polarization study of ethanol effect on gastric surfactant (rat), 104:179
Focal nodular hyperplasia, multiple, of liver, 104:616-cr
Food allergy, fact, fiction, and fatality, 104:1229-ss
Food and Drug Administration (FDA), sulindac assessment by, 104:569
Forskolin, pancreatic FK506 and (rat), 104:1153
Four-antigen radioimmunoblot assay, for anti-HCV antibodies, 104:272-cr, 104:556
Foveolar hyperplasia
Menetrier's disease and, 104:1310
mucosal histamine content and, 104:1057
France
Crohn's disease in, 104:351, 104:643-e
hemochromatosis in, 104:2-tmig
Fulminant viral hepatitis
hepatitis C virus in, 104:549
new virus in, 104:335-tmig, 104:556, 104:640-e
Functional bowel disease, characterization of, 104:1196-vodd, 104:1196
Furosemide, endothelin 1 and (rat), 104:1328

Gabexate mesilate, in acute pancreatitis, 104:1165
Gadolinium chloride, sinusoidal endothelial cell damage and (rat), 104:1466
Galanin
calbindin-D28K and, 104:1381
calretinin and, 104:1381
gallbladder motility and (dog), 104:1680
Gallbladder
cholesterol monohydrate crystal growth and, 104:1515
inflammation, mechanisms of acute (rabbit), 104:248
motility, inositol triphosphate and, 104:563
mucosal function of, 104:329-srr
nerve cell projections and (Australian possum), 104:130
Gallstones
apolipoprotein E and, 104:1587-tmig, 104:1806
calcification of, 104:1885-c
cholesterol crystallization and, 104:527, 104:539
dietary fat and, 104:1880-ss
gallbladder motility and, 104:563
total parenteral nutrition and, 104:286-srr
Gangliosides, in prevention of neuropathy (rat), 104:1072
Gap junctions, intermediate cells of Cajal and, 104:343
Gas-liquid chromatography, colorectal adenomas and, 104:145
Gastric acid
immune system and, 104:1874-ss
interleukin 1 inhibition of (rat), 104:377
JO 1784 and (rat), 104:427
Gastric argyrophil carcinoid, subtypes of, 104:994
Gastric cancer, atypical juvenile polyposis with, 104:910-cr
Gastric mucosal lesions, transglutaminase and (rat), 104:65
Gastric polyposis, omeprazole in, 104:1584-c
Gastric surfactant, ethanol effect on (rat), 104:179
Gastrin
capsaicin-induced neuroendocrine responses and (rat), 104:485
carcinoids and, 104:994
developmental expression of in colon (rat), 104:1092
distension and (rat), 104:834
gallbladder motility and (dog), 104:1680
in gastric mucin synthesis, 104:1888-c
peptic ulcer disease and, 104:1356
phytohemagglutinin lectin exposure and (rat), 104:1669
receptor, parietal cell (dog), 104:1876-ss
Gastrinoma, identification of, 104:994
Gastritis
Helicobacter mustelae in (ferret), 104:86
Menetrier's disease and, 104:1310
peptic ulcer disease and, 104:1356
Gastroduodenoscopy, for familial adenomatous polyposis, 104:666-c
Gastroenterology, formal specialty recognition of, 104:10-ceig
Gastroesophageal reflux
blocking intact inhibition and (cat), 104:810
mucosal injury and, 104:1057
Gastrointestinal diseases, management of, 104:1576-br
Gastrointestinal tract, pathology of, 104:663-br
G cells
capsaicin-induced neuroendocrine responses and (rat), 104:485
Helicobacter pylori infection and, 104:1655
peptic ulcer disease and, 104:1356
Gender
in agenesis of dorsal pancreas, 104:1183-cr
in alcoholism, 104:664-br
in alopecia with ulcerative colitis, 104:1187-cr
in anorectal melanoma, 104:174
in Barrett's esophagus, 104:1686
in Buerger's disease, 104:1192-cr
in colorectal adenomas, 104:137, 104:145, 104:1445
in Crohn's disease, 104:351
in intraluminal pancreatic candidiasis, 104:1532-cr
in peptic ulcer, 104:1083
in sulindac-associated hepatic injury, 104:569
Gene product 9.5, in pyloric sphincter (rat), 104:1072
Generalized juvenile polyposis, with mixed pattern and gastric cancer, 104:91-cr
Genes
albumin, 104:256
bovine growth hormone, 104:973
cholecystokinin, 104:1092
α-fetoprotein, 104:256
gastrin, 104:1092
hemochromatosis, 104:2-tmig, 104:228
hepatitis B virus precore/core gene, 104:263
ileal glucagon, 104:459
in inflammatory bowel disease, 104:448, 104:671-tmig, 104:741
in ulcerative colitis, 104:741
Germany, alcoholism in, 104:664-br
Giant gastric folds, in Menetrier's disease, 104:1310
Glandular atrophy, in Menetrier's disease, 104:1310
Gliadin, celiac disease and, 104:1263
Globin, immune serum, hepatitis A vaccine and, 104:1129
Glomerular filtration rate
in alcoholic cirrhosis, 104:884
captopril and, 104:588
indomethacin and, 104:869
Glucagon, octreotide effect on (rat), 104:575
Glucosamine labeling, human fetal stomach in organ culture and, 104:492
Glucose absorption, Na^+-coupled, in cryptosporidiosis (pig), 104:440
Glucose oxidase, hydrogen peroxide damage and (rat), 104:780
Glucose oxidation, reducing sulfur compounds and, 104:802
Glucose polymers, rice, in oral rehydration solutions (rat), 104:81

Glucose-6-phosphatase, cytochrome P-450 in plasma membrane and, 104:203
γ-Glutamyl transpeptidase
in BDEC lines (rat), 104:840
membrane transport and, 104:1796
Gluten, sensitivity and latency, 104:1550-e
Gluten-free diet, in celiac disease, 104:1263
Glyceryl trinitrate, in pancreatic secretion (dog), 104:896
Glychodeoxycholic acid, in pancreatitis (rat), 104:890
Glycine, in extension of gastrin and cholecystokinin (rat), 104:1092
Glycogen storage disease Type 1b, chronic inflammatory bowel disease in, 104:328-srr
Glycoprotein inhibitor, human biliary, of cholesterol crystallization, 104:527, 104:646-e
Glycoprotein promoter, human biliary, of cholesterol crystallization, 104:539, 104:646-e
Glycosylation, MUC2 apomucin tandem repeat and (mouse), 104:93
Glycosyltransferases, bacterial toxin interaction with developing intestine and, 104:916-srr
Goblet cells
MUC2 apomucin tandem repeat and (mouse), 104:93
trefoil peptide expression in, 104:12
Gonadotropin-releasing hormone (GnRH), gallbladder motility and (sheep), 104:1680
G proteins, bacterial toxin interaction with developing intestine and, 104:916-srr
Graft acceptance, in organ transplantation, 104:677-ceig
Graft vs. host disease (GVHD), primary biliary cirrhosis and, 104:651-e
Granulocyte colony-stimulating factor (G-CSF), for chronic inflammatory bowel disease, 104:328-srr
Granulocyte-macrophagecolony-stimulating factor (GM-CSF), for chronic inflammatory bowel disease, 104:328-srr
Granuloma, in Crohn's disease, 104:772
Granulomatous colitis, chronic, nitric oxide in (rat), 104:759
Growth hormone, effects of on small bowel (transgenic mice), 104:973
Growth hormone-releasing factor (GRF), gallbladder motility and (rat), 104:1680
Guanine nucleotide-regulatory proteins, bacterial toxin interaction with developing intestine and, 104:916-srr
Guanylate cyclase inhibitors, in lower esophageal sphincter relaxation, 104:656-ss
Gut
macromolecular permeability of in pancreatitis (rat), 104:890
macromolecular uptakes in, 104:622-srr
trefoil peptides in, 104:12
Gut lavage fluid, in inflammatory bowel disease, 104:1064

488H κ-agonist, in reversal of ileus (rat), 104:724
H_1 receptors, gastric hyperemia mechanism and (rat), 104:114
H_2 receptor blocker, acid secretion and (rabbit), 104:1013
Haloperidol, JO 1784 and (rat), 104:427
Hans Popper, tribute to, 104:331-br
Heart failure, right-sided, focal nodular hyperplasia of liver and, 104:616-cr
Helicobacter mustelae, fecal, gastric pH in isolation of (ferret), 104:86
***Helicobacter pylori* gastritis**
ammonia in (rat), 104:796
animal models for, 104:1886-c
antral G cells/D cells and, 104:1655
duodenal ulcers and, 104:1573-ss
Helicobacter mustelae and (ferret), 104:86
Menetrier's disease and, 104:1310
Hematoxylin and eosin (H&E)
endocrine tumors and, 104:994
myenteric plexus and, 104:1398
HemeSelect test, for bowel cancer screening, 104:1661, 104:1852-e
Hemoccult II test, for bowel cancer screening, 104:1661, 104:1852-e
Hemoccult IISENSA test, for bowel cancer screening, 104:1661, 104:1852-e
Hemochromatosis, genetic, link between liver cancer and, 104:2-tmig, 104:228
Hemodynamics, in cirrhosis, 104:222
HemoQuant test, for bowel cancer screening, 104:1661, 104:1852-e
Hemorrhage, gastrointestinal, infection in cirrhotics with, 104:1238-c
Hemorrhagic necrotizing pancreatitis, pancreatic duct obstruction in (opossum), 104:853
Hemorrhagic shock, bacterial translocation in, 104:1587-tmig, 104:1722
Hepatectomy, partial, γ-aminobutyric acid effects on liver regeneration after (rat), 104:217
Hepatic encephalopathy, overview of, 104:1576-br
Hepatic hydatosis, treatment of, 104:1452
Hepatic venous pressure gradient, in cirrhosis, 104:222
Hepatitis
autoimmune
anti-cytochrome P-450 autoantibodies in, 104:203
C4A gene deletion in, 104:1478
cryptogenic chronic active hepatitis as form of, 104:1588-tmig, 104:1755
type II, 104:1870-e
viral
discovery of, 104:955
liver disease and, 104:944-br
vaccines for, 104:962
Hepatitis A virus (HAV)
discovery of, 104:957
vaccine for, 104:1129, 104:1214-e
Hepatitis B virus (HBV)
bone marrow ablation for, 104:1818-cr
cirrhosis with, 104:1116
fulminant hepatitis and, 104:549
HBV-like viruses and, 104:960
hepatitis C virus and, 104:595
interferon alpha for, 104:953-tmig, 104:1116
in liver cancer, 104:196
precore/core mutations in, 104:263
Hepatitis C virus (HCV)
cryoglobulinemia with vasculitis associated with, 104:272-cr
fulminant hepatitis and, 104:549
getting to the core of, 104:335-tmig
interferon alpha for, 104:104:877, 104:903-cr, 104:1472
liver/kidney microsome type 1 in, 104:1762
more than just a liver disease, 104:320-e
in non-A, non-B hepatitis, 104:556
pathology of infection, 104:595
in renal tranplant recipients, 104:862
RNA in, 104:671-tmig
silent epidemic of, 104:661-ss
T-lymphocytes in, 104:580
vaccine for, 104:1228-ss
Hepatitis D virus (HDV)
discovery of, 104:958
recurrence of after liver transplantation, 104:1122
Hepatitis E virus (HEV)
discovery of, 104:959
in non-A, non-B hepatitis, 104:556
Hepatobiliary diseases
overview of, 104:1882-br
total parenteral nutrition and, 104:286-srr

Hepatocellular carcinoma
combined modality treatment of, 104:196
genetic hemochromatosis and, 104:2-tmig
hepatitis B virus and, 104:961
orthotopic liver transplantation for, 104:317-e
Hepatocytes
cyclosporin A and (rat), 104:1507
cytochrome P-450 in, 104:203
tauroursodeoxycholic acid effect on cytosolic Ca^{2+} in (rat), 104:604
Hepatology, clinical, 104:1232-br
Hepatoma cells, human, colloid osmotic pressure in, 104:256
HEPES buffer, pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Hereditary nonpolyposis colorectal cancer
review of, 104:1535-srr
variable age of onset in, 104:946-c
Hexamethonium
bicarbonate secretion and (rat), 104:825
endothelin 1 and (rat), 104:1328
JO 1784 and (rat), 104:427
High-performance liquid chromatography (HPLC), cholesterol crystallization inhibitor in bile and, 104:539
His14 monoclonal antibody, in acute pancreatitis (rat), 104:1498
Hispanics, alcoholism in, 104:664-br
Histamine
in Crohn's disease, 104:1692
elimination of, (rabbit), 104:1013
ethanol-induced microvascular injury and (rabbit), 104:361
in gastric mucin synthesis, 104:1888-c
gastric mucosal injury and, 104:1057
prostaglandins and (rat), 104:122
Histone H3 probes, ileal proglucagon gene expression and (rat), 104:459
HLA class II genes, in inflammatory bowel disease, 104:671-tmig, 104:741
HLA-DR antigens, interleukin 1 and, 104:749
HLA haplotypes, Crohn's disease and, 104:351
HLA phenotype
in alopecia with ulcerative colitis, 104:1187-cr
in cryptogenic chronic active hepatitis, 104:1588-tmig, 104:1755
Hong Kong, HCV RNA levels after renal transplants in, 104:671-tmig
Hormones, somatostatin action on (rat), 104:1146
Hospital credentialing standards, for physicians who perform endoscopies, 104:1563-paps, 104:1563
Hospitalization rates, for peptic ulcer, 104:1083
HuH-7 hepatoma cells, human, colloid osmotic pressure in, 104:256
Human spasmolytic polypeptide (hSP), gene expression, in gastrointestinal epithelial cells in inflammatory bowel disease, 104:12
Humoral immunity, hepatitis C virus and, 104:580
Hydatid cysts, hepatic, treatment of, 104:1452
Hydrochloric acid, viscous fingering of, through gastric mucin, 104:1878-ss
Hydrocortisone, acetic acid-induced colitis and (rat), 104:1021
Hydrogen metabolism, in pneumatosis cystoides intestinalis, 104:392
Hydrogen peroxide injury, iron and superoxide in mediation of (rat), 104:780
Hyperamylasemia, in acute pancreatitis, 104:1768
Hyperdynamic circulation, in cirrhosis, 104:1579-c
Hyperemia
mechanism of injury-induced (rat), 104:114
in pancreatic exocrine secretion, 104:672-tmig
Hypergastrinemia
carcinoids and, 104:994
peptic ulcer disease and, 104:1356
Hyperglycemia, total parenteral nutrition and (rat), 104:235
Hyperlipidemia, in pancreatitis, 104:1527-cr, 104:1560-e
Hyperosmolality, total parenteral nutrition and (rat), 104:235
Hyperplasia
liver, 104:616-cr
neuroendocrine cell, 104:12
Hyperpolarization
lower esophageal sphincter and (opossum), 104:1439
nitric oxide and (dog, human), 104:398
Hypersensitivity-type reaction
in Crohn's disease, 104:772
sulindac-associated hepatic injury and, 104:569
Hypertension, cyclosporin A and, 104:519
Hypertrophic gastropathy
carcinoids and, 104:994
Menetrier's disease and, 104:1310
Hypertrophic lymphocytic gastritis, Menetrier's disease and, 104:1310
Hypertrophic pyloric stenosis, infantile, nitric oxide synthase in, 104:658-ss
Hypochlorhydria, *Helicobacter mustelae* in feces and (ferret), 104:86
Hypolactasia, human adult-type, mosaicism of brush border antigens in, 104:21
Hypopharynx, deglutitive tongue action and, 104:152
Hyposmic stress, esophageal cell K^+ channels and (rabbit), 104:417
Hypotension, arterial, captopril-induced, 104:588
Hypothalamus
corticotropin-releasing factor in (rat), 104:716
lesions, in gastrointestinal cell proliferation (rat), 104:475

^{125}I, membrane transport and, 104:1796
IEC-18 cells, IGF-I receptor expression in (rat), 104:1705
IgA antigliadin antibodies, in celiac disease, 104:1263
IgG, in gut lavage fluid, 104:1064
IgM antibodies
in celiac disease, 104:1263
to hepatitis B core antigen, 104:549
to hepatitis E virus, 104:556
Ileum
in Crohn's disease, 104:351
in cryptosporidiosis (pig), 104:440
cytochrome P450 in (rat), 104:1611
enterocytes, in active bile acid transport (guinea pig, rat), 104:38
growth, phytohemagglutinin lectin and (rat), 104:1669
perforation, cytomegalovirus and, 104:1822-cr
proglucagon gene expression in (rat), 104:459
pseudo-obstruction and, 104:1398
Saccharomyces boulardii inhibition of Toxin A effects in (rat), 104:1108
Ileus reversal
α_2-adrenergic drugs for (rat), 104:819
fedotozone for (rat), 104:724
Immortalization, of colon epithelium (rat), 104:1346
Immune activation genes, in inflammatory bowel disease, 104:448
Immune system
in gastric acid secretion and peptic ulcer disease, 104:1874-ss
macromolecular uptakes in gut and, 104:622-srr
Immunocytes, in α-chain disease, 104:278-cr
Immunoelectron microscopy, trefoil peptides and, 104:12

Immunohistochemical analysis
cytomegalovirus-associated ileal perforation and, 104:1822-cr
p53 overexpression and, 104:57
transforming growth factor α and (rat), 104:789
trefoil peptides and, 104:12
Immunonutrition, enteral nutrition and, 104:936-ss
Immunoperoxidase staining
endocrine markers and, 104:994
membrane transport and, 104:1796
Immunoproliferative small intestinal disease (IPSID), celiac disease and,104:1887-c
Indocyanine green, in glomerular filtration rate assessment, 104:884
Indomethacin
for chronic colitis (rat), 104:47
in experimental colitis, 104:1891-c
gastric hyperemia mechanism and (rat), 104:114
in cholecystitis (rabbit), 104:248
in cryptosporidiosis (pig), 104:440
IL-1β action on intestinal motility and (rat), 104:377
lamina propria mononuclear cells and (rat), 104:964
renal dysfunction induced by, in cirrhosis, 104:869
Infants
hypertrophic pyloric stenosis in, 104:658-ss
pseudo-obstruction in, 104:1398
total parenteral nutrition-related cholestasis and, 104:286-srr
toxigenic diarrhea in, 104:916-srr
Infection, in cirrhotics with gastrointestinal hemorrhage, 104:1238-c
Inferior vena cava, membranous obstruction of, 104:1581-c
Inflammation
anal transition zone and, 104:514
in Menetrier's disease, 104:1310
nitric oxide in (rat), 104:759
Inflammatory bowel disease (IBD)
adhesion molecule expression in, 104:1568-ss
anemia in, erythropoietin for, 104:1828-cr
clustering in, 104:643-e
cytokines and, 104:1202-e
diarrhea in, 104:671-tmig, 104:671
familial, 104:351
genes in, 104:671-tmig, 104:741
gut lavage fluids in, 104:1064
HLA class II genes in, 104:741
immune activation genes in, 104:448
interleukin 1 in, 104:749
interleukin 2 in (rat), 104:964
interleukin 6 in, 104:1285
macrophage-derived mucin secretagogue in, 104:1302
mesalamine for, 104:435
MHC-restricted cytotoxicity in, 104:384
muscularis in (rabbit), 104:369
neutrophils in (rat), 104:953-tmig, 104:1021
odd forms of, 104:327-srr
T cells in, 104:335-tmig, 104:384, 104:448
trefoil peptide gene expression in, 104:12
Inflammatory cells
in acute pancreatitis (rat), 104:1498
in cryptosporidiosis (pig), 104:440
in hepatitis C virus infection, 104:595
Inflammatory infiltrate, in pouchitis, 104:981
Inflammatory mediators, prostanoids in release of from mast cells, 104:314-e
Influenza, in Crohn's disease, 104:351
Inhibitory junction potentials
of lower esophageal sphincter (opossum), 104:1439
nitric oxide and (dog, human), 104:398
^{111}In-labeled granulocyte scanning, of inflammatory infiltrate in pouchitis, 104:981
Inositol triphosphate (IP_3)
in restoration of impaired gallbladder motility, 104:563
tauroursodeoxycholic acid and (rat), 104:604
In situ hybridization
cytomegalovirus-associated ileal perforation and, 104:1822-cr
ileal proglucagon gene expression and (rat), 104:459
trefoil peptides and, 104:12
Insulin
in amino acid turnover in cirrhosis, 104:1712
gallbladder motility and (pig), 104:1680
ileal proglucagon gene expression and (rat), 104:459
ventromedial hypothalamic lesions and (rat), 104:475
Insulinlike growth factor-binding protein, in AGS cell growth, 104:1595
Insulinlike growth factor 1 (IGF-1)
expression, extracellular matrix effect on (rat), 104:1705
small bowel and (transgenic mice), 104:973
Integrins, effect of leumedins on, 104:953-tmig
Interferon, recombinant, for cryptogenic chronic active hepatitis, 104:1757
Interferon alpha
essential mixed cryoglobulinemia and, 104:272-cr
for cirrhosis, 104:953-tmig, 104:1116
for hepatitis B, 104:595, 104:953-tmig, 104:1116
for hepatitis C, 104:580, 595, 104:672-tmig, 104:877, 104:1472
Interferon alpha-2a, for hepatitis C, lichen planus and, 104:903-cr
Interleukin 1 (IL-1)
in chronic colitis (rat), 104:47
intestinal, 104:749
Interleukin 1β (IL-1β)
acetylcholine release and (rat), 104:1648
in intestinal motility (rat), 104:377
Interleukin 2 (IL-2)
in experimental colitis (rat), 104:964
in inflammatory bowel disease, 104:448
in ulcerative colitis, 104:448
Interleukin 6 (IL-6)
in cirrhosis, 104:1492
in inflammatory bowel disease, 104:1285
in predicting mortality in infected cirrhotics, 104:1248-tmig
Interleukins, in chronic colitis (rat), 104:47
Intermediate filaments, in intermediate cells of Cajal, 104:343
Interstitial cells of Cajal, in human small intestine, 104:343
Intestinal fluid, α-chain protein in, 104:278-cr
Intestines
developing, bacterial toxins and, 104:916-srr, 104:916
interleukin 1 in, 104:749
macromolecular uptakes in, 104:622-srr
mast cells in (rat), 104:122
motility of
α_2-adrenergic drugs and (rat), 104:819
IL-1β action on (rat), 104:377
permeability hypothesis and, 104:1588-tmig, 104:1627, 104:1848-e
regulatory peptides and, 104:1205-e
in sarcoidosis, 104:947-c
transplantation of, 104:675-ceig
Intra-abdominal pressure, in cirrhosis, 104:222
Intragastric distribution, cigarette smoking effects on, 104:410
Intrahepatic cholestasis of pregnancy, ursodeoxycholic acid for, 104:660-ss
Intraluminal manometry, deglutitive tongue action and, 104:152
In vitro cell aggregation, in Crohn's disease, 104:772

Ionomycin, membrane transport and, 104:1796
Ion transport
bacterial toxin interaction with developing intestine and, 104:916-srr, 104:916
EHEC 0157:H7 and (rabbit), 104:467
endothelin 1 and (rat), 104:1328
Iron status
aspartate aminotransferase and, 104:665-c
in genetic hemochromatosis link with liver cancer, 104:2-tmig, 228
hydrogen peroxide damage and (rat), 104:780
Irritable bowel syndrome (IBS), somatostatin in, 104:1248-tmig
Ischemia, of small bowel, Buerger's disease presenting as, 104:1192-cr
Isosorbide-5-mononitrate, for variceal bleeding, 104:1247-tmig, 104:1460
Itching, in cholestasis, 104:1-tmig, 104:244

Japan
familial adenomatous polyposis in, 104:954-tmig, 104:989
HCV RNA and, 104:672-tmig
Jaundice
sulindac-associated hepatic injury and, 104:569
vitamin E absorption in, 104:1587-tmig
J chain, in proliferating B cells,104:278-cr
Jejunum
bile salts in, passive absorption of (rat), 104:165
bovine growth hormone in (transgenic mice), 104:973
celiac disease and, 104:1263
α-chain protein in, 104:278-cr
cytochrome P450 in (rat), 104:1611
EM523 and (dog), 104:1320
ethanol in (rabbit), 104:361
growth, phytohemagglutinin lectin and (rat), 104:1669
M cells in (rat), 104:698
nitric oxide in (dog, human), 104:398
pseudo-obstruction and, 104:1398
JO 1784, cysteamine duodenal ulcers and (rat), 104:427

K^+
bacterial toxin interaction with developing intestine and, 104:916-srr
in duodenal bicarbonate transport (rabbit), 104:732
transport, in human biliary cell lines, 104:1796
K^+ channels, basolateral, in esophageal cells (rabbit), 104:417
Kaposi sarcoma, ileal, 104:1822-cr
Ketotifen
ethanol-induced microvascular injury and (rabbit), 104:361
in mast cell activation (rat), 104:122
Kidneys
in agenesis of dorsal pancreas, 104:1183-cr
in cirrhosis, 104:884, 104:1139, 104:1886-c, 104:1892-c
cyclosporin A and, 104:519
endothelin in, 104:1485
in hepatic cirrhosis, 104:931-e, 104:931
indomethacin and, 104:869
low-dose captopril and, 104:588
transplantation of
HCV RNA levels after, 104:671-tmig
hepatitic C virus infection and, 104:862
Kodak Ektachem lipase, absence of false elevations with, 104:1580-c
Korea, alcoholism in, 104:664-br
K-*ras* mutations, in colorectal cancer, 104:1044
KT1-32, for chronic colitis (rat), 104:47

β-Lactoglobulin, celiac disease and, 104:1263
Lactulose
intestinal permeability to, 104:1588-tmig, 104:1627
in pneumatosis cystoides intestinalis, 104:392
Lamellae, muscle, intermediate cells of Cajal and, 104:343
Lamina propria
in collagenous colitis, 104:906-cr, 104:906
in cryptosporidiosis (pig), 104:440
interleukin 1 in, 104:749
interleukin 2 in (rat), 104:964
mucosal histamine content and, 104:1057
Laminin, in IGF-I receptor expression (rat), 104:1705
Laparoscopy, in appendectomy, 104:935-ss
Laparotomy, ileus induced by, fedotozine in reversal of (rat), 104:724
Large-droplet fat, in hepatitis C virus infection, 104:595
Large infranuclear inclusion bodies, in gastric mucous cells (rat), 104:103
Large intestine
NSAID side effects in, 104:1832-srr
ventromedial hypothalamic lesions and DNA synthesis in (rat), 104:475
Laser photoablation, of Barrett's epithelium, 104:1855-e, 104:1686
Latitude, anorectal melanoma correlated with, 104:174
L cells, intestinal, ileal proglucagon gene expression and (rat), 104:459
LDQ10 monoclonal antibody, MUC2 apomucin tandem repeat and (mouse), 104:93
Lectin affinity chromatography, cholesterol crystallization inhibitor in bile and, 104:527
Lectins, binding of, to glycoconjugates of human gastric fundus, 104:1883-br
Left-sided tumors, in colorectal carcinoma, 104:57
Leiomyosarcoma, long-term survival for, 104:940-ss
Leucine
γ-aminobutyric acid in liver regeneration and (rat), 104:217
turnover, in cirrhosis, 104:1858-e, 104:1712
Leukocyte function associated antigens (LFAs), in Crohn's disease, 104:772
Leukocyte rolling, and firm adhesion in microcirculation, 104:310-e
Leukocytes
adherence of in mesenteric venules (rat), 104:31
unsticking of, methotrexate in, 104:1-tmig
Leukopenia, during cheomtherapy for liver cancer, 104:196
Leukotriene B_4 (LTB_4), leukocyte-endothelial cell adhesive interactions and (rat), 104:31
Leukotriene D_4
in chronic colitis (rat), 104:47
in colitic muscularis mucosae (rabbit), 104:369
Leukotrienes, cyclosporin A and (rat), 104:1507
Leumedins, colon inflammation and (rat), 104:953-tmig, 104:1021
Lichen planus, interferon alpha-2a therapy and, 104:903-cr
Life-style factors, colorectal adenomas and, 104:1445
Light microscopy, of endothelin 1 binding site in liver (rat), 104:1745
Lipidapheresis, in hyperlipidemic pancreatitis, 104:1527-cr, 104:1560-e
Lipids
in cholecystitis (rabbit), 104:248
in gastric mucous cells (rat), 104:103
in pancreatitis, 104:1527-cr, 104:1560-e
5-Lipoxygenase inhibitor
for acetic acid-induced colitis (rat), 104:1021
for chronic colitis (rat), 104:47

Liquids, intragastric distribution of, cigarette smoking effects on, 104:410
Liver
bile duct epithelial cells and (rat), 104:840
bile salt clearance and (rat), 104:165
cachectin/tumor necrosis factor and (rat), 104:235
cancer
combined modality treatment of, 104:196
in genetic hemochromatosis, 104:2-tmig, 104:228
hepatitis B virus and, 104:961
orthotopic liver transplantation for, 104:317-e
cells, in hepatitis C virus infection, 104:595
cirrhosis
abdominal pressure and hemodynamics in, 104:222
amino acid kinetics in, 104:1858-e, 104:1712, 104:1886-c
cancer and, 104:2-tmig
captopril and renal function in, 104:588
central blood volume in, 104:1878-ss
cyclosporin A for, 104:519
cytokines and, 104:1248-tmig
endothelin in, 104:1485
first bleeding in, 104:1460
gastrointestinal hemorrhage and, 104:1238-c
glomerular filtration rate in, 104:884
with hepatitis B, 104:1116
hyperdynamic circulation in, 104:1579-c
interferon alpha for, 104:953-tmig
interleukin 6 in, 104:1492
kidneys in, 104:931-e, 104:1892-c
new strategies needed for treatment of, 104:651-e
NSAID-induced renal dysfunction in, 104:869
peripheral arteriovenous shunting in, 104:1139
spontaneous bacteral peritonitis in, 104:954-tmig, 104:1133
tumor necrosis factor α in, 104:1492
cyclosporin A and (rat), 104:1507
cytochrome P-450 in, 104:203
disease
shock enhances translocation of gut bacteria in, 104:1587-tmig, 104:1722
total parenteral nutrition and, 104:286-srr
viral hepatitis and, 104:944-br
vitamin E deficiency in, 104:1587-tmig, 104:1727
endothelin 1 binding site in (rat), 104:1745
hepatitis B virus mutations and, 104:263
hepatitis C virus RNA in, 104:1472
hydatid cysts and, 104:1452
injury
NSAIDs in, 104:569
propafenone in, 104:1524-cr
sulindac in, 104:569
itch, etiology of, 104:1-tmig
necrosis, activated macrophages in (rat), 104:1466
nodular transformation of, 104:616-cr, 104:759
pruritis, propofol and, 104:244
regeneration, γ-aminobutyric acid in (rat), 104:217
tauroursodeoxycholic acid effect on cytosolic Ca^{2+} in (rat), 104:604
transplantation, 104:673-ceig
in combined modality treatment for liver cancer, 104:196
guide to, 104:1233-br
hepatitis D recurrence after, 104:1122
for hepatocellular carcinoma, 104:317-e
orthotopic, 104:317-e, 104:1122
Liver/kidney microsome type 1
in cryptogenic chronic active hepatitis, 104:1588-tmig, 104:1755, 104:1756
in hepatitis C virus, 104:1762
in type II autoimmune hepatitis, 104:1870-e
Loss of heterozygosity (LOH), p53 gene, in ulcerative colitis, 104:1633
Lower esophageal sphincter (LES)
central vagal efferent supply to (cat), 104:1430
inhibitory junction potentials of (opossum), 104:1439
neural inhibition of (cat), 104:810
nitric oxide in relaxation of, 104:656-ss
Luminal feedback regulation, of pancreas (rat), 104:1780
Lymphocytes
in acute pancreatitis (rat), 104:1498
in celiac disease, 104:1263
in colonic inflammation (rat), 104:759
Lymphocytic gastritis, Menetrier's disease and, 104:1310
Lymphoid follicles, in hepatitis C virus infection, 104:595
Lynch syndromes I and II, hereditary nonpolyposis colorectal cancer and, 104:1535-srr
Lysine, biocytin and (rat), 104:75
Lysolecithin, in cholecystitis (rabbit), 104:248
Lysosomal hydrolases, in acute pancreatitis, 104:1768
Lysosomes, in M cells (rat), 104:698

Mac-1, in Crohn's disease, 104:772
Macromolecular permeability, gut, in pancreatitis (rat), 104:890
Macromolecular uptakes, in intestine, 104:622-srr
Macrophage-derived mucin secretagogue, in inflammatory bowel disease, 104:1302
Macrophages
activated, in liver necrosis (rat), 104:1466
in acute pancreatitis (rat), 104:1498
in colonic inflammation (rat), 104:759
Magnetron, in endoscopy (dog), 104:672-tmig, 104:680, 104:672
Major histocompatibility antigen (MHC)-restricted cytotoxicity, in inflammatory bowel disease, 104:384
Major histocompatibility complex (MHC) class II determinants, in M cells (rat), 104:698
Malabsorption, in liver disease, 104:1587-tmig, 104:1727
Mallory body-like material, in hepatitis C virus infection, 104:595
Mannitol, intestinal permeability to, 104:1588-tmig, 104:1627
Manometry
deglutitive tongue action and, 104:152
of sphincter of Oddi, 104:1243-c
Massive foveolar hyperplasia and minimal inflammation, Menetrier's disease and, 104:1310
Mast cells
activation of, prostaglandins in inhibition of (rat), 104:122
ethanol-induced microvascular injury and (rabbit), 104:361
prostanoids in release of inflammatory mediators from, 104:314-e
Matrigel, in IGF-I receptor expression (rat), 104:1705
Mauritius, α-chain disease in, 104:278-cr
M cells
endosomal-lysosomal system and Ia expression in (rat), 104:698
macromolecular transport through, 104:622-srr
McNeil-A343, in esophagitis (cat), 104:810
Meal, smoking and intragastric distribution of, 104:410
Medetomidine, intestinal motility and (rat), 104:819
Medical education, changing, specializa-

tion of gastroenterology in America and, 104:7-ceig
Melanoma, anorectal, 104:174
Membrane stabilization, by ursodeoxycholate, 104:1736
Membrane transport, in biliary cell lines, 104:1796
Menetrier's disease, characterization of, 104:1310
Mental retardation, in agenesis of dorsal pancreas, 104:1183-cr
Mepyramine, in Crohn's disease, 104:1692
Mercaptides, in ulcerative colitis, 104:802
Mercapto-fatty acid, in ulcerative colitis, 104:802
6-Mercaptopurine, for ulcerative colitis, 104:326-srr
Mesalamine, for Crohn's disease, 104:435, 104:1293
Mesenteric circulation, nitric oxide in, 104:896
Mesenteric venules, leukocyte adherence in (rat), 104:31
Messenger RNA (mRNA)
cholecystokinin, 104:1092
α-fetoprotein, 104:256
gastrin, 104:1092, 104:1099
insulinlike growth factor, 104:1595
insulinlike growth factor-binding protein, 104:1595
insulinlike growth factor 1, 104:973, 104:1705
interleukin 1, 104:749
interleukin-2Rβ, 104:448
ileal proglucagon, 104:459
trefoil peptide, 104:12
Metallothionein, in Wilson's disease, 104:1566-ss
Metallothionein I promoter, bovine growth hormone gene and (transgenic mice), 104:973
Metaplasia, intestinal, esophageal cancer and, 104:510
[met]-enkephalin
gallbladder motility and (dog), 104:1680
in pyloric sphincter (rat), 104:1072
Methanogenic bacteria, in pneumatosis cystoides intestinalis, 104:392
Methotrexate (MTX)
in inhibition of white cell stickiness, 104:1-tmig
leukocyte adhesion and (rat), 104:31
for primary biliary cirrhosis, 104:652-e
Methylene blue, in lower esophageal sphincter relaxation, 104:657-ss
N^t-Methylhistamine, elimination, from gastric mucosa (rabbit), 104:1013
Metranidazole, for pouchitis, 104:981
Mexico, traveler's diarrhea in, 104:671-tmig, 104:709
Microcirculation, leukocytes and, 104:310-e
Microfluorimetry, pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Micronodular hyperplasia, peptic ulcer disease and, 104:1356
Microorganisms, infectious, in Crohn's disease, 104:351
Microsomal Ca^{2+}-translocase inhibitor, tauroursodeoxycholic acid and (rat), 104:604
Microspectrofluorometry, tauroursodeoxycholic acid effects on cytosolic Ca^{2+} in isolated hepatocytes and (rat), 104:604
Microvascular injury, jejunal, ethanol-induced (rabbit), 104:361
Microvillus membrane receptors, bacterial toxin binding to, 104:916-srr
Microwave generator, in endoscopy (dog), 104:672-tmig, 104:680, 104:926-e
Migrating myoelectric complexes
fedotozine and (rat), 104:724
IL-1β action on intestinal motility and (rat), 104:377
Misoprostol, in mast cell activation (rat), 104:122
Missense mutations
in chronic hepatitis B virus infection, 104:263
in ulcerative colitis, 104:1633
Mitomycin C, in experimental colitis (rat), 104:1049
MK-329, cholecystokinin and, 104:1414
MK-886, for chronic colitis (rat), 104:47
MMS-68, in inflammatory bowel disease, 104:1302
Mobilferrin, as calreticulin homologue (rat), 104:1700
Mononitrates, for variceal bleeding, 104:1247-tmig, 104:1460
Mononuclear cells
granulomalike aggregates of, in Crohn's disease, 104:772
lamina propria
interleukin 1 in, 104:749
interleukin 2 in (rat), 104:964
Morphine
ileus and (rat), 104:724
spinal, itching and, 104:1-tmig, 104:244
Mortality rates
for acute pancreatitis, 104:1165
for esophageal cancer, 104:1037
for liver cancer, 104:196
for sulindac-associated hepatic injury, 104:569
for ulcerative colitis, 104:1241-c
Mosaic differentiation, of human villus enterocytes, 104:21
Motilin
EM523 and (dog), 104:1320
gallbladder motility and (dog), 104:1680
pepsinogen and (guinea pig), 104:1030
Motion sickness, vection-induced, relief of, 104:665-c
Motoneuronal labeling, colonic vagus nerve and (rat), 104:502
MUC2 apomucin tandem repeat, detection of (mouse), 104:93
Mucin
gallbladder, in cholesterol monohydrate crystal growth, 104:1515
gastric
gastric acid and, 104:1878-ss
regulation of synthesis of, 104:1888-c
Mucosal atrophy, cell kinetics of in stomach (rat), 104:796
Mucosal cells
hydrogen peroxide damage and (rat), 104:780
prostaglandins in (rat), 104:103
Mucosal healing, transglutaminase and (rat), 104:65
Mucosal protection
epidermal growth factor in (rat), 104:1605
prostanoids in, 104:314-e
Multinucleation, liver cell, in hepatitis C virus infection, 104:595
Multiple endocrine neoplasia, carcinoids and, 104:994
Multivisceral transplantation, history of, 104:675-ceigx1Muscarinic synapses, JO 1784 and (rat), 104:427
Muscle contraction, in colitis (rat), 104:1049
Muscularis mucosae, colonic, in colitis (rabbit), 104:369
Muscular wasting, cachectin/tumor necrosis factor and (rat), 104:235
Mycobacteria, in Crohn's disease, 104:351
***Mycoplasma* spp.**, in Crohn's disease, 104:351
Myeloperoxidase, in colonic inflammation (rat), 104:759, 104:1021, 104:1049
Myenteric neurons, small intestinal, presynaptic inhibition by adenosine on (guinea pig), 104:1420
Myenteric plexus
acetylcholine release and (rat), 104:1648
in chronic intestinal pseudo-obstruction, 104:1398

Myotomy, on proximal duodenum (Australian possum), 104:i30
Mz-ChA-1 cells, membrane transport in, 104:1796

Na^+
bacterial toxin interaction with developing intestine and, 104:916-srr
biocytin and (rat), 104:75
in cryptosporidiosis (pig), 104:440
EHEC 0157:H7 and (rabbit), 104:467
endothelin 1 and (rat), 104:1328
K^+ channels and, 104:417
low-dose captopril and, 104:588
octreotide and (rat), 104:575
pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
NADH-cytochrome c reductase, cytochrome P-450 in plasma membrane and, 104:203
Na-free solutions, in duodenal bicarbonate transport (rabbit), 104:732
Naloxone
acupressure and, 104:665-c
ileus and (rat), 104:724
for pruritis, 104:1-tmig
Naloxone-methiodide, ileus and (rat), 104:724
Nasogastric tube, removal of, early oral feeding following, 104:324-srr
Nasopharynx, α-chain protein in, 104:278-cr
National Institutes of Health (NIH), gastroenterology and, 104:10-ceig
Nausea
endorphins and, 104:665-c
pregnancy-related, cutaneous electrogastrogram and, 104:1569-ss
Negative feedback regulation, of active ileal bile acid transport (guinea pig, rat), 104:38
Neiguan point, for motion sickness, 104:665-c
Neonates, serum bile salt levels in, 104:165
Nerves
calcitonin gene-related peptide and (rat), 104:485
intermediate cells of Cajal and, 104:343
lower esophageal sphincter and (opossum), 104:1439
Neural inhibition
in esophagitis (cat), 104:810
in intestinal circular muscle, nitric oxide mediation of (dog, human), 104:398
Neural projections, from duodenum to biliary tract (Australian possum), 104:130
Neuroendocrine cells, hyperplasia of, trefoil peptide expression and, 104:12
Neuroendocrine carcinomas, identification of, 104:994
Neuroendocrine function, calcitonin gene-related peptide in (rat), 104:485
Neuronal markers, in pyloric sphincter (rat), 104:1072
Neurons
capsaicin-sensitive (rat), 104:1371
distension and (rat), 104:834
Neuropathy
agenesis of dorsal pancreas and, 104:1183-cr
essential mixed cryoglobulinemia and, 104:273-cr
gangliosides in prevention of (rat), 104:1072
vitamin E deficiency in, 104:1587-tmig, 104:1727
Neuropeptide Y (NPY)
calretinin and, 104:1381
gallbladder motility and (dog), 104:1680
in pyloric sphincter (rat), 104:1072
Neurotensin, gallbladder motility and (dog), 104:1680
Neurotransmitters
in intestinal muscle (dog, human), 104:398
in isolated colon, 104:690
in lower esophageal sphincter relaxation, 104:656-ss
Neutropenia, chronic inflammatory bowel disease and, 104:328-srr
Neutrophils
in acute pancreatitis (rat), 104:1498
adhesion of to endothelial cell monolayers, methotrexate effect on, 104:31
in alopecia with ulcerative colitis, 104:1187-cr
in colonic inflammation (rat), 104:759
in inflammatory bowel disease (rat), 104:953-tmig, 104:1021
omeprazole and, 104:938-ss
New South Wales, peptic ulcer in, 104:1083
N^G-monomethyl-L-arginine
jejunal nitric oxide and (dog, human), 104:398
in pancreatic blood flow, 104:672-tmig
N^G-nitro-L-arginine
calcitonin gene-related peptide and (rat), 104:1371
in inhibitory innervation of colon, 104:690
jejunal nitric oxide and (dog, human), 104:398
lower esophageal sphincter and (opossum), 104:1439
in pancreatic blood flow, 104:896
N^G-nitro-L-arginine methyl ester, gastric hyperemia mechanism and (rat), 104:114
Nicotinic agonists, synaptic behavior in myenteric neurons and (guinea pig), 104:1420
Nitecapone, bicarbonate secretion and, 104:825, 104:1409
Nitrates
in colonic inflammation (rat), 104:759
for variceal bleeding, 104:1247-tmig, 104:1460
Nitric oxide
calcitonin gene-related peptide and, in capsaicin protection (rat), 104:1371
in colonic inflammation (rat), 104:759
in experimental cirrhosis (rat), 104:1750
gastric hyperemia mechanism and (rat), 104:114
in inhibitory innervation of colon, 104:690
in jejunum (dog, human), 104:398
lower esophageal sphincter and, 104:656-ss, 104:1439
in pancreatic blood flow control, 104:672-tmig
in pancreatic secretion (dog), 104:896
Nitric oxide synthase, in infantile hypertrophic pyloric stenosis, 104:658-ss
Nitrite, in colonic inflammation (rat), 104:759
Nitrogen
cachectin and (rat), 104:235
in duodenal bicarbonate transport (rabbit), 104:732
Nitroglycerin, apamin and, 104:690
Nitroprusside, in lower esophageal sphincter relaxation, 104:657-ss
Nodose ganglia, neural projections and (Australian possum), 104:130
Nodular hyperplasia, of liver, 104:616-cr
Nonadrenergic, noncholinergic (NANC) nerves, of lower esophageal sphincter (opossum), 104:1439
Nonadrenergic, noncholinergic (NANC) neurotransmitters
in isolated colon, 104:690
in lower esophageal sphincter relaxation, 104:656-ss
Non A, non B (NANB) hepatitis
discovery of, 104:958
new virus in, 104:335-tmig, 104:556, 104:640-e
in renal tranplant recipients, 104:862

Nonaspirin, nonsteroidal anti-inflammatory drugs, (NANSAIDs), peptic ulcer and, 104:1083
Nonsense mutations, p53 gene, in ulcerative colitis, 104:1633
Nonspecific esophageal motility disorder (NEMD), characterization of, 104:1281
Nonsteroidal anti-inflammatory drugs (NSAIDs)
in appendicitis, 104:1571-ss
in hepatic injury, 104:569
renal dysfunction induced by, in cirrhosis, 104:869
side effects of, 104:1832-srr
sucrose permeability and, 104:1619
Nor-binaltorphimine, ileus and (rat), 104:724
Nordihydroguaiaretic acid (NDGA), acetic acid-induced colitis and (rat), 104:1021
Norepinephrine, in cirrhosis, 104:1485
Norfloxacin, for spontaneous bacterial peritonitis, 104:954-tmig
North America, alcoholism in, 104:663-br
Northern blotting analysis
albumin and, 104:256
α-fetoprotein and, 104:256
NPC 15669, in inhibition of neutrophil recruitment (rat), 104:953-tmig, 104:1021
NS4 protein, in hepatitis C virus, 104:580
Nucleating proteins, cholesterol, 104:646-e
Nucleus of the solitary tract, colonic vagus nerve and (rat), 104:502
Nutrition
cachectin/tumor necrosis factor and (rat), 104:235
colonocyte, 104:802

Obesity, gallbladder emptying stimuli and, 104:1880-ss
OC.2 antigen, in BDEC lines (rat), 104:840
OC.3 antigen, in BDEC lines (rat), 104:840
Octanoic acid breath test, carbon-labeled, to measure gastric emptying of solids, 104:1640
Octreotide
distension and, 104:1248-tmig
for portal hypertension (rat), 104:575
rectal afferent inhibition by, 104:1390
ODT-8 SS, gallbladder motility and (dog), 104:1680
ω-3 fatty acids
in bowel cancer, 104:1239-c
in enteral nutrition, 104:936-ss
Omeprazole
for Barrett's esophagus, 104:1855-e, 104:1686
fecal *Helicobacter mustelae* and (ferret), 104:86
in gastric polyposis, 104:1584-c
neutrophil function and, 104:938-ss
for peptic ulcer disease, 104:1356
Oncogenes
colorectal carcinoma and, 104:2-tmig, 104:57
immortalized colon cell lines and (rat), 104:1346
Oncotic pressure, albumin and α-fetoprotein regulation by, 104:256
Opiate antagonist, for pruritis, 104:1-tmig
Opiates, for diarrhea, 104:671-tmig
Opie myth, pancreatitis and, 104:927-e
Opioid agonist, in reversal of ileus (rat), 104:724
κ-opioid receptors, fedotozine and (rat), 104:724
Opthalmoplegia, vitamin E deficiency in, 104:1587-tmig
Oral rehydration solutions, rice glucose polymers in (rat), 104:81
Organ culture, human fetal stomach in, 104:492
Organelles, lipidic, in gastric mucous cells (rat), 104:103
Organizations, gastroenterological, development of, 104:9-ceig
Oropharyngeal propulsive chamber, deglutitive tongue action and, 104:152
Osmolality
rice glucose polymers in oral rehydration solutions and (rat), 104:81
total parenteral nutrition and (rat), 104:235
Ouabain, in duodenal bicarbonate transport (rabbit), 104:732
OV6 antigen, in BDEC lines (rat), 104:840
Ovalbumin, celiac disease and, 104:1263
Overweight, colorectal adenomas and, 104:137
OX6 monoclonal antibody, M cells and (rat), 104:698
OX19 monoclonal antibody, in acute pancreatitis (rat), 104:1498
Oxygen, arteriovenous shunting and, 104:1139
Oxygen-dependent metabolic pathways, in duodenal bicarbonate transport (rabbit), 104:732
Oxyntic cells, histamine elimination and (rabbit), 104:1013
Oxytocin, gallbladder motility and (dog), 104:1680

p53 oncogene
in colorectal carcinoma, 104:2-tmig, 104:57
in ulcerative colitis, 104:1633, 104:1889-c
Pacific region, alcoholism in, 104:663-br
Pancreas
cancer, MUC2 apomucin tandem repeat and (mouse), 104:93
dorsal, 104:1182-cr
duct obstruction in (opossum), 104:853
exocrine
FK506 and (rat), 104:1153
insufficiency of, 104:1255-ceig
luminal feedback regulation of (rat), 104:1780
somatostatin inhibition of secretin in (rat), 104:1146
ileal proglucagon gene expression and (rat), 104:459
nitric oxide in, 104:672-tmig, 104:896
Pancreas divisum, stenting of, 104:1226-ss
Pancreaticojejunostomy, longitudinal, for intraluminal pancreatic candidiasis, 104:1532-cr
Pancreatitis
acute
cellular kinetics of (rat), 104:1498
chloroquine in, 104:1768
damage prevention vs. damage control in, 104:1216-e
acute necrotizing (opossum), 104:853
acute relapsing, after endoscopic sphincterotomy, 104:1814-cr
in agenesis of dorsal pancreas, 104:1183-cr
chronic, history of, 104:1255-ceig
early electron-microscopic acinar cell derangements in, 104:1236-c
gabexate mesilate in, 104:1165
gestational hyperlipidemic, extracorporeal lipid elimination for, 104:1527-cr, 104:1560-e
gut permeability in (rat), 104:890
Opie myth and, 104:927-e
recurrent, intraluminal pancreatic candidiasis presenting as, 104:1532-cr
in systemic lupus erythematosus, 104:613-cr
Papillary stenosis, acute relapsing pancreatitis as complication of, 104:1814-cr
Paraventricular nucleus (PVN), corticotropin-releasing factor in (rat), 104:716

Parietal cell gastrin receptor, cloning of (dog), 104:1876-ss
D-Penicillamine, for primary biliary cirrhosis, 104:651-e
Pentasa. *See* Mesalamine
Peplomycin, for esophageal cancer, 104:953-tmig, 104:1037
Pepsinogen, secretion, motilin and erythromycin in regulation of (guina pig), 104:1030
Peptic ulcer disease
immune system and, 104:1874-ss
nonsteroidal anti-inflammatory drugs and hospitalization rates of, 104:1083
omeprazole for, 104:1356
Peptide histidine isoleucine (PHI), gallbladder motility and (dog), 104:1680
Peptide YY
gallbladder motility and (dog), 104:1680
ileal proglucagon gene expression and (rat), 104:459
phytohemagglutinin lectin exposure and (rat), 104:1669
Peptidoglycan-polysaccharide (PG-PS), in inflammation (rat), 104:759
Percutaneous drainage, for hepatic hydatosis, 104:1452
Peripheral blood mononuclear cells (PBMCs)
in hepatitis C virus, 104:580
in inflammatory bowel disease, 104:384
Peritoneum, mast cells in (rat), 104:122
Peritonitis
ileus induced by, fedotozine in reversal of (rat), 104:724
spontaneous bacterial, 104:954-tmig, 104:1133
Permeability, intestinal
in Crohn's disease, 104:1588-tmig, 104:1627, 104:1848-e
marker for, 104:1619
Peyer's patches, jejunal, M cells in (rat), 104:698
PF-5901, in mast cell activation (rat), 104:122
pH
in acute pancreatitis, 104:1768
bile, gallstone calcification and, 104:1885-c
biocytin and (rat), 104:75
gastric, fecal *Helicobacter mustelae* and (ferret), 104:86
intracellular, in esophageal epithelial cells (rabbit), 104:185
Pharyngeal chamber, deglutitive tongue action and, 104:152
Phenanthroline, hydrogen peroxide damage and (rat), 104:780
Phenolphthalein, in diarrhea induction, 104:1007
Phentolamine, bicarbonate secretion and (rat), 104:825
Phenylalanine, turnover, in cirrhosis, 104:1712, 104:1858-e
Phenylephrine, tauroursodeoxycholic acid and (rat), 104:604
Phloretin, ethanol-induced microvascular injury and (rabbit), 104:361
Phorbol ester, pancreatic FK506 and (rat), 104:1153
Phospholipids
ethanol and (rat), 104:179
in gastric mucous cells (rat), 104:103
gastric surfactant and, 104:179
Phosphotyrosine antibodies, immortalized colon cell lines and (rat), 104:1346
Physiological buffer, pH_i regulation in esophageal epithelial cells and (rabbit), 104:185
Physiology, gastrointestinal, early American studies of, 104:6-ceig
Phytohemagglutinin lectin, in mucosal growth (rat), 104:1669
Pigment stones, gallbladder motility and, 104:563
Piroxicam, endothelin 1 and (rat), 104:1328
Plasma membrane, hepatocyte, cytochrome P-450 in, 104:203
Plasmid-encoding adhesion factors, EHEC 0157:H7 and (rabbit), 104:467
Plastic, in culture medium, in IGF-I receptor expression (rat), 104:1705
Platelet-activating factor (PAF)
in chronic colitis (rat), 104:47
endothelin 1 and (rat), 104:1328
leukocyte-endothelial cell adhesive interactions and (rat), 104:31
prostaglandins and (rat), 104:122
Pneumatosis cystoides intestinalis, hydrogen metabolism in, 104:392
Pneumonia, in agenesis of dorsal pancreas, 104:1183-cr
Point mutations, p53 gene, in ulcerative colitis, 104:1633
Policy and Position Statement
Credentialing, 104:1563
Gastroenterology board recertification: a mandate for continuing scholarship, 104:1221
Hospital credentialing standards for physicians who perform endoscopies, 104:1563
Recertification in gastroenterology, 104:1220
Polidocanol, for coagulation of bleeding ulcers (dog), 104:680
Polyamines
gastric damage and (rat), 104:65
in gastrointestinal tract, 104:1577-br
Polyethylene glycol (PEG), in pancreatitis (rat), 104:890
Polymerase chain reaction (PCR)
familial adenomatous polyposis and, 104:954-tmig, 104:989
hepatitis B virus and, 104:263, 104:549
hepatitis C virus and, 104:272-cr, 104:549, 104:556
hepatitis E virus and, 104:556
HLA class II genes and, 104:741
K-*ras* mutations and, 104:57, 104:1044
Polymers, in α-chain disease, 104:278-cr
Polyposis
gastric, omeprazole in, 104:1584-c
juvenile atypical, 104:910-cr
Polysaccharide-free diet, for pneumatosis cystoides intestinalis, 104:392
Portal hypertension
bacterial translocation in, 104:1587-tmig, 104:1722
in cirrhosis, 104:222
in focal nodular hyperplasia of liver, 104:616-cr
isosorbide-5-mononitrate in, 104:1460
octreotide for (rat), 104:575
Portal-systemic nephropathy, hepatic cirrhosis and, 104:931-e
Portal tracts, aggregates in, in hepatitis C virus infection, 104:595
Portasystemic shunts, indocyanine green as measure of, 104:884
Postcapillary venules, leukocyte adherence in (rat), 104:31
Postoperative feeding, liquid vs. solid fuel, 104:324-srr
Potassium chloride
in Crohn's disease, 104:1692
gallbladder motility and, 104:563
muscle contraction in colitis and (rat), 104:1049
splanchic vascular hyporeactivity and (rat), 104:1750
Potassium conductance, esophageal cell K^+ channels and (rabbit), 104:417
Potential difference, in duodenal bicarbonate transport (rabbit), 104:732
Pouchitis
inflammatory infiltrate in, 104:981
problem with, 104:1209-e
Powell, Don. W., M.D., 104:1249
Powell Tuck Index, for Crohn's disease, 104:1064
Precapillary connections, arteriovenous shunting and, 104:1139

Precore mutations, in chronic hepatitis B virus infection, 104:263
Prednisone
for collagenous colitis, 104:906-cr
for cryptogenic chronic active hepatitis, 104:1757
for primary biliary cirrhosis, 104:651-e
Pregnancy
first trimester, gastric myoelectrical activity, in, 104:1569-ss
fulminant hepatitis in, 104:556
gestational hyperlipidemic pancreatitis in, 104:1527-cr, 104:1560-e
intrahepatic cholestasis of, 104:660-ss
Prelysosomes, in M cells (rat), 104:698
Presynaptic inhibition, by adenosine (guinea pig), 104:1420
Primary biliary cirrhosis
cyclosporin A for, 104:519
new strategies needed for treatment of, 104:651-e
Primary sclerosing cholangitis, ursodeoxycholic acid for, 104:941-ss
Proctocolectomy, anal transition zone and, 104:514
Progastrin, in colorectal carcinoma, 104:1099
Proglucagon gene, ileal, expression of (rat), 104:459
Propafenone, hepatotoxicity of, 104:1524-cr
Propofol, for pruritis, 104:1-tmig, 104:244
Propranolol, for variceal bleeding, 104:1247-tmig, 104:1460
Prostacyclin,endothelin 1 and (rat), 104:1328
Prostaglandin E_2 (PGE_2)
colitic muscularis mucosae and (rabbit), 104:369
in cryptosporidiosis (pig), 104:440
in duodenal bicarbonate secretion, 104:732, 104:1409
interleukin 2 and (rat), 104:964
in mast cell activation (rat), 104:122
pepsinogen and (guinea pig), 104:1030
Prostaglandin $F_{2\alpha}$ (PGE_2), colitic muscularis mucosae and (rabbit), 104:369
Prostaglandin I_2 (PGI_2), in cholecystitis (rabbit), 104:248
Prostaglandins
calcitonin gene-related peptide and (rat), 104:1371
gastric hyperemia mechanism and (rat), 104:114
in gastric mucous cells (rat), 104:103
IL-1β action on intestinal motility and (rat), 104:377
indomethacin and, 104:869
in inhibition of mast cell activation (rat), 104:122
Prostanoids
in acute cholecystitis (rabbit), 104:248
in cryptosporidiosis (pig), 104:440
in gastric mucous cells (rat), 104:103
in inflammatory mediator release from mast cells, 104:314-e
Protamine, basic fibroblast growth factor and (frog), 104:1337
Protease, in inhibition of Toxin A intestinal effects (rat), 104:1108
Protease inhibitor, in acute pancreatitis, 104:1165
Protein, cachectin/tumor necrosis factor and (rat), 104:235
Protein cross-linking, gastric damage and (rat), 104:65
Prothrombin time
arteriovenous shunting and, 104:1139
in spontaneous bacterial peritonitis, 104:954-tmig
Proton pump inhibitor, in hypochlorhydria (ferret), 104:86
Proulcerogenic mediators, in mast cells (rat), 104:122
pS2 peptide, gene expression, in gastrointestinal epithelial cells in inflammatory bowel disease, 104:12
Pseudo-obstruction, chronic intestinal, in infants and children, 104:1398
Psyllium, for secretory diarrhea, 104:1007
Puerto Rico, alcoholism in, 104:663-br
Pulmonary arterial hypertension, focal nodular hyperplasia of liver and, 104:616-cr
Purine analogues, for ulcerative colitis, 104:325-srr
Purine nucleoside phosphorylase, sinusoidal endothelial cell damage and (rat), 104:1466
Purpura, essential mixed cryoglobulinemia and, 104:273-cr
Putrescine
γ-aminobutyric acid in liver regeneration and (rat), 104:217
transglutaminase and (rat), 104:65
Pyloric sphincter, neuropathy in, prevention of (rat), 104:1072
Pyloric stenosis, infantile hypertrophic, nitric oxide synthase in, 104:658-ss
Pyrilamine, gastric hyperemia mechanism and (rat), 104:114
Pyrogallol, in lower esophageal sphincter relaxation, 104:657-ss

Quinine, esophageal cell K^+ channels and (rabbit), 104:417

Race
anorectal melanoma and, 104:174
colorectal adenomas and, 104:1445
Radiography,in Crohn's disease, 104:351
Radioscintigraphy, of nonspecific esophageal motility disorder, 104:1281
Ranitidine, for peptic ulcer disease, 104:1356
***ras* oncogenes**
in colorectal cancer, 104:2-tmig, 104:57, 104:1044
immortalized colon cell lines and (rat), 104:1346
Raynaud's syndrome, essential mixed cryoglobulinemia and, 104:273-cr
^{86}Rb, membrane transport and, 104:1796
Receptor-mediated transport capacity, in α-chain disease, 104:278-cr
Recertification, in gastroenterology, 104:1220-paps, 104:1221-paps
Recombinant proteins, hepatitis C virus, 104:580
Rectal afferent inhibition, by octreotide, 104:1390
Rectosigmoid neoplasia, in ulcerative colitis, 104:666-c
Rectum
anal transition zone and, 104:514
colonic vagus nerve and (rat), 104:502
Red blood cell membranes, ursodeoxycholate in stabilization of, 104:1736
Red kidney bean phytohemagglutinin lectin, in mucosal growth (rat), 104:1669
Reducing agents, colonocyte nutrition and, 104:802
Reducing sulfur compounds, in ulcerative colitis, 104:802
Regulatory peptides, intestinal growth and, 104:1205-e
Regulatory volume decrease, K^+ channels and, 104:417
Renal duplication, in agenesis of dorsal pancreas, 104:1183-cr
Renin
arteriovenous shunting and, 104:1139
in cirrhosis, 104:1485
octreotide and (rat), 104:575
Restraint-stress, 4-hour, ulcers and (rat), 104:427
Restriction enzyme digestion, Ki-*ras* codon 12 mutations and, 104:57
Retrograde intragastric movement, cigarette smoking and, 104:410
Reverse transcription, of HCV RNA, 104:877
Review process, for GASTROENTEROLOGY, 104:1252-e
Rice glucose polymers, in oral rehydration solutions (rat), 104:81
Right-sided tumors, in colorectal carcinoma, 104:57
rIRAP, for chronic colitis (rat), 104:47

RNA
in enteral nutrition, 104:936-ss
hepatitis C virus, 104:671-tmig, 104:862, 104:877, 104:1472
RP55778, for chronic colitis (rat), 104:47

Saccharomyces boulardii, in inhibition of Toxin A intestinal effects (rat), 104:1108
Saline
intragastric hypertonic, in gastric hyperemia (rat), 104:114
isotonic, γ-aminobutyric acid in liver regeneration and (rat), 104:217
Salmonella typhimurium, epithelial signal transduction mechanisms for invasion and, 104:326-srr
Sarcoidosis, intestinal involvement in, 104:947-c
SC 19220, IL-1β action on intestinal motility and (rat), 104:377
Scleroderma, nonspecific esophageal motility disorder and, 104:1281
Scopolamine, pancreatic FK506 and (rat), 104:1153
Secretin
gallbladder motility and (dog), 104:1680
pepsinogen and (guinea pig), 104:1030
somatostatin and, 104:1146, 104:1414
Secretory diarrhea, treatment of, 104:1007
Secretory protein, gene expression, in gastrointestinal epithelial cells in inflammatory bowel disease, 104:12
Selected Summaries
Adhesion molecule expression in inflammatory bowel disease, 104:1568
Appendectomy—will the laparoscope reign?, 104:935
Central blood volume in cirrhosis, 104:1878
Does the gallbladder secrete?, 104:329
An enteric pathogen subverts epithelial signal transduction mechanisms for invasion, 104:326
Food allergy: fact, fiction, and fatality, 104:1229
The gastrin (or is it CCK-B?) receptor on the parietal cell is cloned, 104:1876
Helicobacter pylori and duodenal ulcer disease: the somatostatin link?, 104:1573
How gastric acid may get to be there, 104:1878
Immunonutrition?, 104:936
Is nitric oxide the noncholinergic, nonadrenergic neurotransmitter responsible for lower esophageal sphincter relaxation?, 104:656
Leiomyosarcoma: not all gastric malignancies have a dismal prognosis, 104:940
Molecular genetics and colorectal cancer, 104:1223
More problems with aspirin: it may cause appendicitis, 104:1571
Nausea and vomiting of pregnancy and cutaneous electrogastrogram, 104:1569
Nitric oxide is (or is not) everywhere!, 104:658
Noninvasive sphincter of Oddi testing: what's the score?, 104:654
Odd forms of inflammatory bowel disease: what can they tell us?, 104:327
Omeprazole and neutrophil function, 104:938
Pancreas divisum: to stent or not to stent, 104:1226
Postoperative feeding: liquid versus solid fuel, 104:324
A potential role for the immune system in gastric acid secretion and peptic ulcer disease, 104:1874
Predicting recurrence in colorectal cancer patients, 104:1225
Promises, promises: ursodeoxycholic acid for primary sclerosing cholangitis, 104:941
Purine analogues and ulcerative colitis, 104:325
A redoubtable obstacle to a hepatitis C vaccine, 104:1228
The silent epidemic of hepatitis C, 104:661
10 g of fat per day may keep gallstones away, 104:1880
Ursodeoxycholic acid treatment of intrahepatic cholestasis of pregnancy: observations on efficacy and safety, 104:660
Zinc in the treatment of Wilson's disease: how it works, 104:1566
Semisolid emptying, in nonspecific esophageal motility disorder, 104:1281
Septicemia, cytokines in, 104:1492
Seroconversion, hepatitis A virus and, 104:1129
Shanghai, alcoholism in, 104:664-br
Shock, in translocation of gut bacteria, 104:1587-tmig, 104:1722
Short bowel syndrome, diarrhea in, 104:671-tmig
Short-circuit current
in duodenal bicarbonate transport (rabbit), 104:732
K^+ channels and, 104:417
σ ligand, cysteamine duodenal ulcers and (rat), 104:427
Sigmoidoscopy, of inflammatory infiltrate in pouchitis, 104:981
Signal transduction
bacterial toxin binding and, 104:916-srr
epithelial, *Salmonella typhimurium* and, 104:326-srr
Silencing, peripheral clonal, in graft acceptance, 104:678-ceig
Simian virus 40 (SV40) LT gene, immortalized colon cell lines and (rat), 104:1346
Sinusoidal endothelial cells, damage to, by activated macrophages in liver necrosis (rat), 104:1466
Sinusoidal inflammatory cells, in hepatitis C virus infection, 104:595
Sk-ChA-1 cells, membrane transport in, 104:1796
SKF-38393, bicarbonate secretion and (rat), 104:825
Small-droplet fat, in hepatitis C virus infection, 104:595
Small intestine
in Crohn's disease, 104:1692
cytochrome P450 in (rat), 104:1611
growth hormone and (transgenic mice), 104:973
interstitial cells of Cajal in, 104:343
ischemia of, Buerger's disease presenting as, 104:1192-cr
mosaicism of brush border antigens in, 104:21
MUC2 apomucin tandem repeat and (mouse), 104:93
myenteric neurons, adenosine A_1 receptors and (guinea pig), 104:1420
NSAID side effects in, 104:1832-srr
permeability of, 104:1627
phytohemagglutinin lectin and (rat), 104:1669
pseudo-obstruction and, 104:1398
resection
cholesterol and bile acid biodynamics after, 104:1786
terminal ileum adaptive response to (rat), 104:459
rice glucose polymers in oral rehydration solutions and (rat), 104:81
trefoil peptide expression in, 104:12
ventromedial hypothalamic lesions and DNA synthesis in (rat), 104:475
Smith's silver technique, myenteric plexus and, 104:1398
SMS-201-995, secretin action and (rat), 104:1146
Sodium chloride (NaCl)
in cryptosporidiosis (pig), 104:440
gastric mucosal injury induced by, transglutaminase effect on (rat), 104:65
retention, in cirrhosis, 104:1139

Sodium hydrogen sulfide, in ulcerative colitis, 104:802
Sodium mercaptoacetate, in ulcerative colitis, 104:802
Solids, intragastric distribution of, cigarette smoking effects on, 104:410
Somatostatin
analogue, rectal afferent inhibition by, 104:1390
capsaicin-induced neuroendocrine responses and (rat), 104:485
cholecystokinin and, 104:1414
distension and (rat), 104:834
duodenal ulcers and, 104:1573-ss
gallbladder motility and (dog), 104:1680
Helicobacter pylori gastritis and, 104:1573-ss
irritable bowel syndrome and, 104:1248-tmig
kidney function in cirrhosis and, 104:1892-c
secretin and, 104:1146, 104:1414
Spain, spontaneous bacterial peritonitis in, 104:954-tmig
Specialization, of gastroenterology in America, 104:6-ceig
Special Reports and Reviews
Bacterial toxin interaction with the developing intestine, 104:916
Genetics, natural history, tumor spectrum, and pathology of hereditary nonpolyposis colorectal cancer: an updated overview, 104:1535
Hepatobiliary complications of total parenteral nutrition, 104:286
Side effects of nonsteroidal anti-inflammatory drugs on the small and large intestine in humans, 104:1832
Uptake and transport of macromolecules by the intestine: possible role in clinical disorders (an update), 104:622
Sphincter of Oddi
group I patients and, 104:1243-c
nerve cell projections and (Australian possum), 104:130
noninvasive testing of, 104:654-ss
Spina bifida, in agenesis of dorsal pancreas, 104:1183-cr
Spinal cord
colonic vagus nerve and (rat), 104:502
morphine injection into, pruritis and, 104:1-tmig, 244
Splanchic vascular hyporeactivity, in cirrhosis, nitric oxide in (rat), 104:1750
Spontaneous bacterial peritonitis, in cirrhotics, 104:954-tmig, 104:1133
Squamous re-epithelialization, in Barrett's esophagus, 104:1855-e, 104:1686
Starch hydrolysates, rice, in oral rehydration solutions (rat), 104:81
Steatohepatitis, total parenteral nutrition and, 104:286-srr
Steatosis, total parenteral nutrition and, 104:286-srr
Stem cells, mosaicism of brush border antigens and, 104:21
Stenting, for pancreas divisum, 104:1226-ss
Sterols, biodynamics of, after total enterectomy, 104:1786
Stomach
cell kinetics of mucosal atrophy in (rat), 104:796
cigarette smoking and, 104:410
colonic vagus nerve and (rat), 104:502
distension, gastric secretion induced by (rat), 104:834
EM523 and (dog), 104:1320
human fetal, in organ culture, 104:492
hydrophobic surface properties of (rat), 104:103
leiomyosarcoma of, 104:940-ss
MUC2 apomucin tandem repeat and (mouse), 104:93
peptic ulcer disease and, 104:1356
prostaglandins in (rat), 104:103
pseudo-obstruction and, 104:1398
ventromedial hypothalamic lesions and DNA synthesis in (rat), 104:475
Stool culture, selective, in Crohn's disease, 104:351
Streptozotocin, in diabetes induction (rat), 104:1072
Stress, in colonic transit acceleration (rat), 104:716
Strontium, gallbladder motility and, 104:563
Submucosal ganglionic plexus neurons, differing chemical content of, 104:1579-c
Substance P
calretinin and, 104:1381
colitic muscularis mucosae and (rabbit), 104:369
muscle contraction in colitis and (rat), 104:1049
in pyloric sphincter (rat), 104:1072
Sucrose, as permeability marker, 104:1619
Sucrose octasulfate, basic fibroblast growth factor and (frog), 104:1337
Sulfasalazine
for acetic acid-induced colitis (rat), 104:1021
for collagenous colitis, 104:906-cr
Sulfate-reducing bacteria, in pneumatosis cystoides intestinalis, 104:392
Sulfur, in ulcerative colitis, 104:802
Sulindac, in hepatic injury, 104:569
Superoxide
hydrogen peroxide damage and (rat), 104:780
omeprazole and, 104:938-ss
Superoxide dismutase, hydrogen peroxide damage and (rat), 104:780
Suramin, basic fibroblast growth factor and (frog), 104:1337
Survival rates
for esophageal cancer, 104:1037
for leiomyosarcoma, 104:940-ss
for liver cancer, 104:196
Swallow function
brainstem and (cat), 104:1430
deglutitive tongue action and, 104:152
Sympathetic nervous activity, central blood volume in cirrhosis and, 104:1878-ss
Synthase inhibitors, jejunal nitric oxide and (dog, human), 104:398
Systemic lupus erythematosus, chronic pancreatitis in, 104:613-cr
Systemic vascular resistance, arteriovenous shunting and, 104:1139

Tachygastria, acupressure and, 104:665-c
Taiwan, alcoholism in, 104:664-br
Taurine, bile acids conjugated with, in cholecystitis (rabbit), 104:248
Taurocholate
cyclosporin A and (rat), 104:1507
passive absorption of (rat), 104:165
ulcers and (rat), 104:427
Taurolithocholic acid, tauroursodeoxycholic acid and (rat), 104:604
Tauroursodeoxycholic acid (TUDCA), effects of on cytosolic Ca^{2+} in isolated hepatocytes (rat), 104:604
T cell activation genes, in inflammatory bowel disease, 104:448
T cells
in hepatitis C virus, 104:580
in inflammatory bowel disease, 104:335-tmig, 104:384, 104:448
Temperature, biocytin and (rat), 104:75
12-*O*-Tetradecanoylphorbol 13-acetate
FK506 and (rat), 104:1153
somatostatin action on (rat), 104:1146
Tetrodotoxin
capsaicin-induced neuroendocrine responses and (rat), 104:485
distension and (rat), 104:834
endothelin 1 and (rat), 104:1328
JO 1784 and (rat), 104:427
nitric oxide and, 104:690
Thapsigargin, membrane transport and, 104:1796
Theophylline, in duodenal bicarbonate transport (rabbit), 104:732

This Month in GASTROENTEROLOGY
Apo E and gallstones: a genetic link?, 104:1587
Are T cells the culprit in IBD?, 104:335
A blood test for familial adenomatous polyposis, 104:954
Cutting the neutrophil off at the pass, 104:953
Cytokines predict mortality in infected cirrhotics, 104:1248
Death and resurrection of the permeability hypothesis, 104:1588
EHEC: a nasty bug even without verotoxin, 104:336
Endothelin: a peptide in search of a disease, 104:1247
Fulminant NANB hepatitis: is a new virus involved?, 104:335
GASTROENTEROLOGY celebrates its golden anniversary, 104:1
Genes and IBD: the DR and DQ connection, 104:671
Getting to the core of hepatitis C, 104:336
Hemochromatosis and liver cancer: iron may not be the whole answer, 104:2
Interferon for hepatitis B and cirrhosis, 104:953
Is cryptogenic chronic active hepatitis a form of autoimmune hepatitis?, 104:1588
Methotrexate unsticks the leukocyte, 104:1
A molecular basis for Duke's classification?, 104:2
More on duodenal bicarbonate, 104:1247
New anesthetic agent knocks out pruritis, but not the patient, 104:1
A new drug for traveler's diarrhea, 104:671
The new wave in endoscopy, 104:672
Nitrates prevent variceal bleeding, 104:1247
A novel form of endoscopic therapy, 104:953
Predicting SBP in cirrhotics, 104:954
Shock enhances translocation of gut bacteria in liver disease, 104:1587
A short history of endoscopy, 104:335
Slow-release 5-ASA for active Crohn's disease, 104:1247
Somatostatin strikes again, 104:1248
A treatable neurological condition in patients with liver disease, 104:1587
What can we learn from HCV RNA?, 104:671
What controls pancreatic blood flow? The answer is NO, 104:672

Threonine, MUC2 apomucin tandem repeat and (mouse), 104:93
Thromboangitis obliterans, with ischemia of small bowel, 104:1192-cr
Thromboxane A2, in chronic colitis (rat), 104:47
Thromboxanes, in experimental colitis, 104:1891-c
Thymidine labeling
γ-aminobutyric acid in liver regeneration and (rat), 104:217
human fetal stomach in organ culture and, 104:492
Thyrotropin-releasing hormone (TRH), gallbladder motility and (dog), 104:1678
T lymphocytes
in acute pancreatitis (rat), 104:1498
M cells and (rat), 104:698
TNM classification, for liver cancer, 104:196
Tocopherol polyethylene glycol succinate (TPGS), in liver disease, 104:1587-tmig, 104:1727
Tongue functions, deglutitive, 104:152
Torovirus, in Crohn's disease, 104:351
Total parenteral nutrition
cachectin/tumor necrosis factor effects and (rat), 104:235
hepatobiliary complications of, 104:286-srr
Total peripheral resistance, octreotide effect on (rat), 104:575
Toxigenic diarrhea of infancy, altered host sensitivity in, 104:916-srr
Transaminase, in hepatitis C virus infection, 104:862
Transcutaneous electrical nerve stimulation, for pain relief, 104:665-c
Transendoscopic injection chemotherapy, for esophageal cancer, 104:953-tmig
Transforming growth factor α (TGF-α), immunohistochemical localization of in colon (rat), 104:789
Transfusions, blood, liver cancer and, 104:2-tmig
Transglutaminase, gastric damage and (rat), 104:65
Transitional epithelium, of anal transition zone, 104:514
Translocase, tauroursodeoxycholic acid and (rat), 104:604
Translocation, bacterial, 104:1587-tmig, 104:1722
Transplantation
bone marrow, for hepatitis B, 104:1818-cr
of gastrointestinal organs, 104:673-ceig
kidney, hepatitic C virus infection and, 104:671-tmig, 104:862
liver
in combined modality treatment for liver cancer, 104:196
guide to, 104:1233-br
hepatitis D recurrence after, 104:1122
for hepatocellular carcinoma, 104:317-e
orthotopic, 104:317-e, 104:1122
Transverse colon, colonic vagus nerve and (rat), 104:502
Trauma, bacterial translocation in, 104:1587-tmig
Traveler's diarrhea, zaldiride maleate for, 104:671-tmig, 104:709
Trefoil peptide, gene expression, in gastrointestinal epithelial cells in inflammatory bowel disease, 104:12
Trichinella spiralis
acetylcholine release and (rat), 104:1648
in experimental colitis (rat), 104:1049
Triglycerides
ethanol and (rat), 104:179
in pancreatitis, 104:1527-cr, 104:1560-e
Trinitrobenzene sulfonic acid (TNBS), in colitis, 104:47, 104:369, 104:964, 104:1049
Triphosphopyridine nucleotide, hepatobiliary complications of, 104:1583-c
Trypsin, luminal feedback regulation of pancreas and (rat), 104:1780
Trypsinogen, in pancreatitis, 104:890, 104:1768
Tumor necrosis factor (TNF)
in predicting mortality in infected cirrhotics, 104:1248-tmig
prostaglandins and (rat), 104:122
sinusoidal endothelial cell damage and (rat), 104:1466
total parenteral nutrition and (rat), 104:235
Tumor necrosis factor α (TNF-α), in cirrhosis, 104:1492

U-50 κ agonist, in reversal of ileus (rat), 104:724
Ulceration, gastric, mast cells in, 104:122
Ulceration-associated cell lineage (UACL) glands, trefoil peptide expression in, 104:12
Ulcerative colitis
alopecia and, 104:1187-cr
anal transition zone in, 104:514
azathioprine for, 104:325-srr
high risk and low mortality in, 104:1241-c
HLA class II genes in, 104:741
interleukin 1 in, 104:749
interleukin 2 in, 104:448
interleukin 6 in, 104:1285
MHC-restricted cytotoxicity in, 104:384

p53 gene in, 104:1633, 104:1889-c
rectosigmoid neoplasia in, 104:666-c
reducing sulfur compounds in, 104:802
Ulcers
basic fibroblast growth factor and (frog), 104:1337
JO 1784 for (rat), 104:427
microwave endoscopy for (dog), 104:672-tmig, 104:680, 104:926-e
Ultrasonography
abdominal, of dorsal pancreatic agenesis, 104:1182-cr
in endoscopy, 104:926-e
of hydatid cysts, 104:1452
United Kingdom, familial adenomatous polyposis in, 104:954-tmig
United States
anorectal melanoma in, 104:174
digestive diseases as national health problem in, 104:10-ceig
familial adenomatous polyposis in, 104:954-tmig, 104:989
HCV RNA levels after renal transplants in. 104:671-tmig
specialization of gastroenterology in, 104:6-ceig
vitamin E deficiency in, 104:1727
Upper gastrointestinal bleeding, in the critically ill, 104:1885-c
Urea, bacterial production of ammonia by in stomach (rat), 104:796
Ursodeoxycholate, membrane stabilization by, 104:1736
Ursodeoxycholic acid
hepatoprotective properties of, 104:1865-e
for intrahepatic cholestasis of pregnancy, 104:660-ss
for primary biliary cirrhosis, 104:651-e
for primary sclerosing cholangitis, 104:941-ss
Ursodeoxycholyltaurine, ileal enterocytes in active transport of (guinea pig, rat), 104:38

Vaccines
for hepatitis A virus, 104:1129, 104:1214-e
for hepatitis C virus, 104:1228-ss
for hepatitis viruses, 104:962
Vagal afferent fibers, JO 1784 and (rat), 104:427
Vagus nerve
colonic, central organization of (rat), 104:502
gastrointestinal DNA synthesis through (rat), 104:475
Variceal bleeding, nitrates for, 104:1247-tmig, 104:1460
Vasculitis, cryoglobulinemia with, 104:272-cr
Vasoactive intestinal polypeptide (VIP)
calbindin-D28K and, 104:1381
calretinin and, 104:1381
in colitic muscularis mucosae (rabbit), 104:369
distension and (rat), 104:834
in duodenal bicarbonate transport (rabbit), 104:732
FK506 and (rat), 104:1153
gallbladder motility and (dog), 104:1680
in lower esophageal sphincter relaxation, 104:657-ss
pepsinogen and (guinea pig), 104:1030
in pyloric sphincter (rat), 104:1072
somatostatin and (rat), 104:1146
Vasodilation, peripheral, octreotide in amelioration of (rat), 104:575
Vasodilatory syndrome, in liver disease-associated portal hypertension, 104:575
Vasopressin, gallbladder motility and (dog), 104:1680
Ventricular septal defect, in agenesis of dorsal pancreas, 104:1183-cr
Ventromedial hypothalamic lesions, in gastrointestinal cell proliferation (rat), 104:475
Verapamil, endothelin 1 and (rat), 104:1328
Verotoxin, EHEC 0157:H7 and, 104:336-tmig, 104:467
Vibrio cholerae, in traveler's diarrhea, 104:671-tmig
Viewpoints on Digestive Diseases
What are functional bowel disorders? 104:1196
Villous absorptive surface, in cryptosporidiosis (pig), 104:440
Villous atrophy, subtotal, in celiac disease, 104:1263
Villous enterocytes, mosaic differentiation of, 104:21
VIP[10-28], distension and (rat), 104:834
Viral gastroenteritis, diarrhea in, 104:671-tmig
Viruses, in Crohn's disease, 104:351
Vitamin E, deficiency, in liver disease, 104:1587-tmig, 104:1727
Volume accomodation, deglutitive tongue action and, 104:152
Vomiting
pregnancy-related, cutaneous electrogastrogram and, 104:1569-ss
unexplained, 19-year-old woman with, 104:302-cch, 104:302
***v-src* oncogene**, immortalized colon cell lines and (rat), 104:1346

Water-holding agents, for treatment of diarrhea, 104:1007
Weight loss, cachectin/tumor necrosis factor and (rat), 104:235
Western blot analysis, cytochrome P450 and (rat), 104:1611
Western cultures, alcoholism in, 104:664-br
Wheat bran, for secretory diarrhea, 104:1007
Wilson's disease, zinc for, 104:1566-ss
Worldwide developments, in specialization of gastroenterology, 104:7-ceig

Xanthine oxidase, hydrogen peroxide damage and (rat), 104:780

Yeast, in inhibition of Toxin A intestinal effects (rat), 104:1108
***Yersinia* spp.**, in Crohn's disease, 104:351

Zaldiride maleate, for traveler's diarrhea, 104:671-tmig, 104:709
Zinc, for Wilson's disease, 104:1566-ss
Zollinger-Ellison syndrome, carcinoids and, 104:994
Zymogens
cytoplasmic, pancreatic FK506 and (rat), 104:1153
digestive enzyme, in acute pancreatitis, 104:1768